



SPARTAN[®]

CHARGE

HERBICIDE

EPA Reg. No. 279-3337

EPA Est. No. 279-IL-1

Active Ingredient:	By Wt.
Carfentrazone-ethyl*	3.53%
Sulfentrazone**	31.77%
Other Ingredients:	64.70%
Total:	100.0%

*SPARTAN CHARGE Herbicide contains 0.35 pounds per US gallon of the active ingredient Carfentrazone-ethyl.

** SPARTAN CHARGE Herbicide contains 3.15 pounds per US gallon of the active ingredient Sulfentrazone.

KEEP OUT OF REACH OF CHILDREN CAUTION

FIRST AID

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 Inhaled: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, 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 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.

HOTLINE NUMBER

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-331-3148 for emergency medical treatment information.

SPARTAN CHARGE HERBICIDE IS FORMULATED AND PACKAGED IN USA.

Sold By



FMC Corporation
2929 Walnut Street
Philadelphia, PA 19104

Net Contents: 1 Gallon

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PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

Caution

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

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: protective eyewear (goggles or face shield), long-sleeved shirt and long pants, chemical resistant gloves made of waterproof material such as polyethylene or polyvinyl chloride, 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 instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations:

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling the product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to algae, marine/estuarine invertebrates, and moderately toxic to fish. 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 wash waters 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 sand which have less than 1% organic matter.

Surface Water Advisory

This product can contaminate surface water through spray drift. Under some conditions, this product 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 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 overlying tile drainage systems that drain to surface waters.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

Notice: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions beyond the control of FMC or Seller. To the extent consistent with applicable law, all such risks shall be assumed by Buyer and User, and Buyer and User agree to hold FMC and Seller harmless for any claims relating to such factors.

Seller warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated on the Directions for Use when used in accordance with the directions under normal conditions of use. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, FMC MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE, NOR ANY OTHER EXPRESS OR IMPLIED WARRANTIES WITH RESPECT TO THE SELECTION, PURCHASE, OR USE OF THIS PRODUCT. Any warranties, express or implied, having been made are inapplicable if this product has been used contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to (or beyond the control of) Seller or FMC, and, to the extent consistent with applicable law, buyer assumes the risk of any such use. To the extent consistent with applicable law, FMC or Seller shall not be

liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS. LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

This Conditions of Sale and Limitation of Warranty and Liability may not be amended by any oral or written agreement.

RESISTANCE MANAGEMENT

Some weeds are known to develop resistance to herbicides that have been used repeatedly. While the development of resistance is well understood, it is not easily predicted. Use herbicides in conjunction with resistance management strategies in the area. Consult the local or State agricultural advisors for details. If weed resistance should develop in the area, this product used alone may not continue to provide sufficient levels of weed control. If the reduced levels of control cannot be attributed to improper application timing, unfavorable weather conditions or abnormally high weed pressure, a resistant strain may have developed.

To reduce the potential for weed resistance, use this product in a rotation program with other classes of chemistry and modes of action. Always apply this product at the listed rates and in accordance with the use directions. Do not use less than listed label rates alone or in tank mixtures. Do not use reduced rates of the tank mix partner. For optimum performance, scout fields carefully and begin applications when weeds are smaller rather than larger. If resistance is suspected, contact the local or State agricultural advisors.

DIRECTIONS FOR USE

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

Read all Directions for Use carefully before applying.

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.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: Coveralls over long-sleeved shirt and long pants, chemical resistant gloves, and shoes plus socks.

Storage and Disposal

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

Pesticide storage

Store product in original container only, away from other pesticides, fertilizer, food or feed. Store in a cool dry place and avoid excess heat. Do not store below 32°F degrees.

In Case of Spill

Avoid contact. Isolate areas and keep out animals and unprotected persons.

To Confine Spills

Dike surrounding area, sweep up spillage. Dispose of in accordance with information given under Pesticide Disposal. Wash spill area with water, absorb with sand, cat litter or commercial clay, sweep up and dispose of in an approved manner. Place damaged container in a large holding container. Identify contents per required hazardous waste labeling regulations.

Pesticide Disposal

Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative of the nearest EPA Regional Office for guidance.

Container Disposal

Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: (For containers greater than 5 gallons) 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. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. (For containers 5 gallons or less) 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 disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Triple rinse (or equivalent). Then offer for recycling if available, or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

Returnable/Refillable Containers - Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller. To clean the container before final disposal, empty the remaining contents into application equipment or mix tank. Fill the container about 10% full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this rinsing procedure two more times.

PRODUCT INFORMATION

SPARTAN CHARGE HERBICIDE is a selective herbicide that provides postemergent contact and soil residual weed control. SPARTAN CHARGE HERBICIDE may be applied as a burndown prior to planting, early preplant, or as a preemergent application before or after weed emergence for control of susceptible broadleaf weeds. SPARTAN CHARGE HERBICIDE is a 3.5 pound per gallon suspoemulsion containing the active ingredients carfentrazone-ethyl and sulfentrazone. Applications of SPARTAN CHARGE HERBICIDE must be made before crop seed germination to prevent injury to the emerging crop seedlings. When applications after planting are delayed, injury may occur if seeds are germinating or if they are located near the soil surface.

Observe the most restrictive of 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 CHARGE HERBICIDE. In addition to general application information, refer to the specific directions of use for a particular crop/use pattern as set forth below.

Proper Handling Instructions

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

Operations that involve mixing, loading rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or 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 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 irrigation system.

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

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

PRODUCT APPLICATION INSTRUCTIONS

SPARTAN CHARGE HERBICIDE is to be mixed with water, liquid fertilizer, or mixtures of water and liquid fertilizer and applied in fallow systems or as a preplant burndown and/or preemergence herbicide to labeled crops. SPARTAN CHARGE HERBICIDE provides postemergent contact and soil residual control of susceptible weed species.

Emerged, susceptible broadleaf weeds are easiest to control when they are small (less than 3 inches tall) and actively growing. Thorough coverage is essential for control of small susceptible broadleaf weeds. If thorough coverage is not achieved postemergent weed control will be poor. Always use the higher recommended rate of this product, for the appropriate soil texture and organic matter, when weed growth is dense or heavy, or when weeds are growing in an undisturbed or non-cultivated area. Reduced weed control may occur if weeds are experiencing drought stress, disease or insect damage, or when weeds are thickly covered with dust. For control of weeds not listed on this label SPARTAN CHARGE HERBICIDE may be tank-mixed with other herbicides such as glyphosate, paraquat and glufosinate. Read and follow all manufacturers' label directions for the companion herbicide(s) and follow the most restrictive instructions for use. The use of a quality spray adjuvant is required for optimum control of emerged weeds. Refer to the individual crop recommendation sections of this label for specific adjuvant type and use rates.

The residual activity of SPARTAN CHARGE HERBICIDE applications requires adequate moisture for herbicidal activation. The amount of residual activity is dependent on several factors. These factors include, but are not limited to, existing soil moisture at application, soil type, organic matter, and tillage. Where irrigation is not available and rainfall has not provided activation, particularly for surface applications of SPARTAN CHARGE HERBICIDE, a shallow incorporation (less than 2") is recommended for destruction of any existing weeds and to incorporate SPARTAN CHARGE HERBICIDE. Herbicide incorporation will initiate the process of activation with existing soil moisture. In circumstances where rainfall has not occurred and/or irrigation is not possible, alternative or additional weed management practices may be required.

Under normal growing conditions, SPARTAN CHARGE HERBICIDE exhibits excellent crop safety. Soil applications of SPARTAN CHARGE HERBICIDE must be made before crop seed germination to prevent injury to the emerging crop seedlings. SPARTAN CHARGE HERBICIDE applied after crop emergence will cause severe injury to the crop. Poor growing conditions, such as excessive moisture, cool temperatures, and soil compaction or the presence of various pathogens may impact seedling vigor. Under these conditions, the active ingredients in SPARTAN CHARGE HERBICIDE can contribute to crop response. Refer to the specific directions of use for a particular crop/use pattern as set forth below for additional information.

ENVIRONMENTAL AND SOIL FACTORS INFLUENCING SPARTAN CHARGE HERBICIDE APPLICATIONS

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

The user is required to read and follow the specific SPARTAN CHARGE HERBICIDE use directions and restrictions for each crop as defined in subsequent sections of this label. The user is cautioned that some crops and weeds respond differently to SPARTAN CHARGE HERBICIDE. This response is governed by the SPARTAN CHARGE HERBICIDE application rate, various soil factors and inherent crop sensitivity. See individual crop use sections for specific directions on the use of SPARTAN CHARGE HERBICIDE for optimum weed control and crop safety results in each crop.

INFLUENCE OF CLAY, SOIL TYPE, AND PH ON SPARTAN CHARGE HERBICIDE USE RATES AND CROP RESPONSE

Following an application of SPARTAN CHARGE HERBICIDE to soil, germinating seeds and seedlings take up SPARTAN CHARGE HERBICIDE from the soil solution. The amount of SPARTAN CHARGE HERBICIDE in the soil solution, and available for weed uptake, is determined primarily by soil type, organic matter, and soil pH. SPARTAN CHARGE HERBICIDE adsorbs to the clay and organic matter fractions of soils; effectively limiting the amount of active ingredient immediately available to control weeds. Soils typically increase in clay content through the series from coarse to fine as noted in the following Soil Classification Chart (Table 1).

Table 1. SOIL CLASSIFICATION CHART

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

Soil organic matter content can vary widely and independently of soil type and requires an accurate analysis of representative soil samples to determine its content.

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

Soil pH also exerts a dramatic affect on SPARTAN CHARGE HERBICIDE availability in the soil solution. As soil pH increases, SPARTAN CHARGE HERBICIDE availability increases. Accurate soil pH information will require an accurate analysis of representative soil samples.

The total amount of SPARTAN CHARGE HERBICIDE available, in any given soil, is determined by the interaction of soil type (clay content), % organic matter, and pH. The application timing (relative to the emergence of the crop and weeds) and amount of rainfall and/or irrigation received will ultimately determine, in conjunction with the soil parameters and pH, the amount of SPARTAN CHARGE HERBICIDE in soil solution.

Irrigation with highly alkaline water (high pH) following a SPARTAN CHARGE HERBICIDE soil application can also significantly increase the amount of SPARTAN CHARGE HERBICIDE available in the soil solution. Irrigation with water having a pH greater than 7.5 could result in adverse crop response. This response will ultimately depend on initial SPARTAN CHARGE HERBICIDE application rate, timing, amount and pH of irrigation water and sensitivity of the crop and its growth stage when irrigated. The risk of adverse crop response will lessen with the advance in growth stage among most crops.

The following Crop Specific Use Directions have been designed with specific SPARTAN CHARGE HERBICIDE instructions for each crop based on the soil type, soil organic matter, and soil pH interactions described above. The user is cautioned that crop tolerance and weed control performance are based on strict adherence to these use directions.

MIXING AND LOADING INSTRUCTIONS

Water or liquid fertilizer solutions may be used as the carrier for SPARTAN CHARGE HERBICIDE when applied alone or in tank mixtures with other registered herbicides. Conduct a jar test to determine the compatibility of SPARTAN CHARGE HERBICIDE and the fertilizer solution. When mixing with fertilizer solutions it is important to premix SPARTAN CHARGE HERBICIDE in clear water. See directions for applying SPARTAN CHARGE HERBICIDE alone with liquid fertilizer in Application Information.

A crop oil concentrate, methylated seed oil, nonionic surfactant (NIS) wetting agent or other equivalent adjuvant labeled for use with herbicides is required for optimum control of emerged weeds. Read and follow all applicable use directions, precautions and restrictions on the surfactant label.

SPARTAN CHARGE HERBICIDE Applied Alone

Select the proper SPARTAN CHARGE HERBICIDE application rate from the following tables in the crop section of this label. Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated. With agitator operating, add the required amount of SPARTAN CHARGE HERBICIDE for acreage being treated by opening the bottle(s) and measuring directly into the spray tank. Allow the product to fully disperse. Complete the addition of spray water. Maintain agitation during filling, mixing and application. Apply the SPARTAN CHARGE HERBICIDE spray mixture immediately after mixing.

Do not store spray mixture.

Do not prepare spray mixtures in nurse tanks.

SPARTAN CHARGE HERBICIDE Applied in Tank Mix Combination

Select the proper SPARTAN CHARGE HERBICIDE application rate from TIMING AND METHOD OF APPLICATION section of label. Read and follow the most restrictive of all applicable use directions, precautions and restrictions on the respective tank mix product labels. To ensure product compatibility, a jar test should be conducted before large volume mixing (see MIXTURE COMPATIBILITY TESTING chart below). Provided the jar test indicates the mixture is compatible, prepare the

tank mixture as follows.

Fill the spray tank with approximately one-half of the volume of water needed for the acreage being treated. With agitator operating, add the required amount of SPARTAN CHARGE HERBICIDE for the acreage being treated by opening the bottle(s) and measuring directly into the spray tank. Allow the product to fully disperse. If more than one product is to be used, add each separately using the following sequence: dry formulations (e.g., wettable powders, dry flowables) first, SPARTAN CHARGE HERBICIDE and other liquid suspensions (e.g., flowables) next and finally liquids (e.g., EC's). Allow time for complete mixing and dispersion after each addition, adding water as necessary. Complete the addition of spray water. Maintain agitation during filling, mixing and application. Use SPARTAN CHARGE HERBICIDE tank mixtures immediately after mixing.

Do not store tank mixtures.

Do not prepare spray mixtures in nurse tanks.

SPARTAN CHARGE HERBICIDE Applied Alone with Liquid Fertilizer

When adding SPARTAN CHARGE HERBICIDE to a liquid fertilizer carrier, premix SPARTAN CHARGE HERBICIDE in clear water before adding to fertilizer solution. Adding SPARTAN CHARGE HERBICIDE to fertilizer mixtures without first mixing with water can result in incompatibility.

Fill the spray tank one-half full with fertilizer solution. With agitator operating, add the SPARTAN CHARGE HERBICIDE slurry to the spray tank. Use a minimum of one gallon of water for each container of SPARTAN CHARGE HERBICIDE. Then add slurry to the spray tank through a 20-35 mesh screen. Rinse container used for pre-mixing and add rinsate to the spray tank. Complete filling the sprayer tank with fertilizer. Maintain agitation during filling, mixing and application. Use SPARTAN CHARGE HERBICIDE spray mixture immediately after mixing.

Do not store mixture.

Do not prepare spray mixtures in nurse tanks.

Jar Testing Fertilizer Spray Mixtures

Applications of SPARTAN CHARGE HERBICIDE alone, or with recommended tank mixtures, in conjunction with clear liquid fertilizer solutions (28-32% nitrogen only) may be used unless use directions specifically state otherwise. Small quantities should be tested for compatibility by the following procedure before mixing in full spray tank quantities.

- 1) Add 1 pint of fertilizer solution in a quart jar.
- 2) Add the appropriate amount of herbicide based on the MIXTURE COMPATIBILITY table below. If more than one product is to be used, add each separately using the following sequence: dry formulations (e.g., wettable powders, dry flowables) first, liquid suspensions (e.g., flowables) next and finally liquids (e.g., EC's).
- 3) Close jar and shake well.
- 4) Watch mixture for several seconds, again after 5 minutes and again after 30 minutes. If herbicide/fertilizer combination remains mixed or can be remixed readily (i.e., does not permanently separate, foam, gel or become lumpy), the mixture is compatible and can be mixed in full volumes and sprayed. If the mixture is compatible, prepare spray by adding fertilizer solution to the tank first, and then follow directions noted below.

MIXTURE COMPATIBILITY TESTING

Herbicide Type	Herbicide Field Use Rate	Amount Herbicide Added Per Pint
Wettable Powder or Dry Flowable	0.5 pound	0.75 teaspoon
	1.0 pound	1.50 teaspoons
	2.0 pounds	3.00 teaspoons
	3.0 pounds	4.50 teaspoons
Emulsified Concentrates Liquid Flowables	1.0 pint	0.5 teaspoon
	1.0 quart	1.0 teaspoon
	2.0 quarts	2.0 teaspoons
	3.0 quarts	3.0 teaspoons

*Based on a spray volume of 25 gallons per acre. For lower or higher spray volumes, adjust fluid fertilizer quantity accordingly.

Adjuvant Requirement

The use of methylated seed oil (MSO) or a crop oil concentrate (COC) adjuvant, labeled for use with herbicides, is required for optimum control of emerged weeds. A nonionic surfactant adjuvant and water conditioning agent is recommended when SPARTAN CHARGE HERBICIDE is tank-mixed with glyphosate. Read and follow all applicable use directions, precautions and restrictions on the surfactant label.

APPLICATION INFORMATION

Ground Application

Use a boom and/or nozzle sprayer equipped with the appropriate nozzles and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Use nozzles that produce minimal amounts of fine spray droplets. Do not exceed 30 psi spray pressure unless otherwise required by the manufacturer of drift reducing nozzles. Apply a minimum of 10 gallons of finished spray per acre. Use higher spray volumes when there is a dense weed population. Thorough coverage is essential for control of susceptible broadleaf weeds. Be aware that overlaps and slower ground speeds while starting, stopping, or turning while spraying may result in excessive application and subsequent crop response.

Continuous agitation is required until all spray mixture has been applied. Avoid swath overlaps. Shut off spray booms while turning, slowing or stopping, as over application may result. Do not allow SPARTAN CHARGE HERBICIDE spray mixtures to sit overnight as settling of product and difficulty of re-suspending may occur.

To avoid injury to sensitive crops, spray equipment used for SPARTAN CHARGE HERBICIDE applications must be drained and thoroughly cleaned with water plus ammonia before being used to apply other products. See Spray Clean-out Section.

Avoid all direct, and/or indirect spray contact with non-target plants. Do not apply near desirable vegetation. Allow adequate distance between target area and desirable plants to minimize exposure.

Do not apply when wind speed favors drift beyond the area of treatment.

Aerial Application

SPARTAN CHARGE HERBICIDE may be applied by air using properly calibrated nozzle types and arrangements that will provide optimum coverage while producing minimal amounts of fine droplets. Apply sufficient spray volume to achieve adequate coverage. Apply a minimum of five (5) gallons of finished spray per acre. Do not apply when wind speed favors drift beyond the area intended for treatment.

Runoff and Wind Erosion Precautions

Do not apply under conditions which favor runoff or wind erosion of soil containing SPARTAN CHARGE HERBICIDE to non-target areas.

To prevent off-site movement due to runoff or wind erosion:

- Avoid treating powdery dry or light sandy soils when conditions are favorable for wind erosion. Under these conditions, allow the soil surface to be settled by rainfall or irrigation.
- Do not apply to impervious substrates such as paved or highly compacted surfaces or frozen or snow covered ground.
- Do not apply to soils when saturated with water.
- Do not use tail water from the first flood or furrow irrigation of treated fields to treat non target crops unless at least 1/2 inch of rainfall has occurred between application and the first irrigation.

SPRAY DRIFT REDUCTION ADVISORY

AVOIDING SPRAY DRIFT AT THE APPLICATION SITE IS THE RESPONSIBILITY OF THE APPLICATOR AND THE GROWER.

The interaction of many equipment and weather related factors determine the potential for spray drift. The applicator and the grower are responsible for considering all these factors when making decisions.

The following drift management requirements must be followed to avoid off-target movement from applications to agricultural field crops.

Where States and local governments have more stringent regulations, they must be observed.

Droplet Size Information

Reduce drift potential by applying large droplets. The optimum drift management strategy is to apply the largest droplets that will provide sufficient coverage and control. Applying larger droplets reduces drift potential, but will not prevent drift when applications are made improperly, or under unfavorable environmental conditions (See Wind, Temperature and Humidity and Temperature Inversions).

VMD – VMD is the expression of the droplet size of the spray cloud. The VMD value means that 50% of the droplets are larger than the expressed value and 50% of the droplets are smaller than the expressed value. Optimum spray clouds should be 450 microns with fewer than 10% of the droplets being 200 microns or smaller.

Volume – Use high flow rate nozzles to apply the highest practical spray volume. Nozzles with higher rated flows usually produce larger droplets.

Pressure – Do not exceed the nozzle manufacturer's recommended pressures. For many nozzle types, lower pressure produces larger droplets. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

Number of Nozzles – Use the minimum number of nozzles that provide uniform coverage.

Nozzle Type – Use a nozzle type that is designed for the intended application. With most nozzle types narrower spray angles produce larger droplets. Consider using low drift nozzles.

Application Height – Making applications at the lowest height practical reduces exposure of spray droplets to evaporation and wind movement.

Swath Adjustment – Swath adjustment distance must increase with

increasing drift potential (higher wind, smaller droplets, etc.)

Wind – Drift potentials are lowest between wind speeds of 3 to 10 miles per hour. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Applications in wind conditions outside of this range could increase the risk of off-target effects and should be avoided. Note that local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect spray drift.

Temperature and Humidity – When making applications in conditions of low relative humidity set up equipment to produce larger droplets to compensate for evaporation. Droplet evaporation is most severe when conditions are both hot and dry.

Temperature Inversions – Do not apply SPARTAN CHARGE HERBICIDE during temperature inversions because the drift potential is high. Temperature inversions restrict vertical air mixing, which causes small suspended droplets to remain in a concentrated cloud. This cloud can move in unpredictable directions due to the light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the following morning. Their presence can be indicated by ground fog. However, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or a smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas – Only apply when the wind is blowing away from adjacent sensitive areas (e.g. residential areas, bodies of water, known habitats for threatened or endangered species and non-target crops).

Off-Target Movement of SPARTAN CHARGE HERBICIDE – Drift of dilute spray mixtures containing SPARTAN CHARGE HERBICIDE must be prevented. Observation of the preceding environmental conditions, correct application equipment design, calibration and application practices will significantly diminish the risk of off-target spray drift. SPARTAN CHARGE HERBICIDE can cause significant symptomatology by drift on to sensitive crops and other plants. This symptomatology may manifest initially as discreet, localized spots where contact by SPARTAN CHARGE HERBICIDE drift mixtures. Depending on concentration of the spray solution and droplet size (effectively determining the concentration of SPARTAN CHARGE HERBICIDE) and also depending on the inherent sensitivity of the plants involved, these spots or lesions may not coalesce. These effects will usually not have lasting effects on plant growth, but will likely reduce the value of affected fruit of foliage where grade or quality is associated with appearance. In severe drift instances with particularly sensitive crops, defoliation of affected foliage could result. Failure to follow these guidelines and environmental prohibitions that then result in off-target movement or drift of SPARTAN CHARGE HERBICIDE on to unintended crops or plants, irrespective of severity, constitutes misapplication of this product. FMC accepts no responsibility or liability for potential crop effects that may result from such misapplication of SPARTAN CHARGE HERBICIDE.

SPRAY EQUIPMENT CLEAN-OUT

After spraying SPARTAN CHARGE HERBICIDE and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure.

1. Drain sprayer tank, hoses, and spray boom and thoroughly rinse the inside of the sprayer tank with clean water to remove sediment and residues. Thoroughly flush sprayer hoses, boom and nozzles with clean water.
2. 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.
3. Convenient and thorough cleaning of the sprayer can be achieved if the cleaning solution is left in the spray tank, hoses, spray booms and spray nozzles overnight or during storage.
4. Before using the sprayer, drain the spray system. Rinse the tank with clean water and flush through the hoses, boom, and nozzles. Remove and clean spray tips and screens separately with the detergent or ammonia solution.
5. Properly 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 irrigation water that may be used on other crops.

Should small quantities of SPARTAN CHARGE HERBICIDE remain in inadequately cleaned mixing, loading and/or spray equipment, they may be released during subsequent applications potentially causing effects to certain crops and other vegetation. FMC accepts no liability for any effects due to inadequately cleaned equipment.

MAXIMUM ALLOWABLE SPARTAN CHARGE HERBICIDE USE PER ACRE PER 12 MONTH PERIOD*

Refer to the crop section of this label for specific product use directions.

Crop	Fluid Ounces SPARTAN CHARGE HERBICIDE Per Acre	Pounds Active SPARTAN CHARGE HERBICIDE** Per Acre
Cabbage (transplant only)	15.2	0.41
Dry shelled peas	10.2	0.28
Fallow	10.2	0.28
Flax	10.2	0.28
Horseradish	10.2	0.28
Lima beans, succulent (Tennessee only)	7.6	0.21
Peanut	10.2	0.28
Sod production	15.2	0.41
Soybeans	8.5	0.23
Sugarcane	15.2	0.41
Sunflowers	10.2	0.28
Tobacco	15.2	0.41

*The total allowed usage per twelve-month period includes all applications made to the field per twelve-month interval. This includes fallow treatments, burndown treatments, planting time and all in-season treatments. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

** Based on total active carfentrazone-ethyl and sulfentrazone

RATE CONVERSION CHART

SPARTAN CHARGE HERBICIDE		CARFENTRAZONE-ETHYL		SULFENTRAZONE	
Product fl oz/A	lb ai*	Product fl oz/A**	lb ai*	Product fl oz/A***	lb ai*
3.75	0.10	0.65	0.01	2.9	0.09
5.75	0.15	1.0	0.015	4.5	0.14
8.50	0.23	1.5	0.02	6.7	0.21
10.20	0.28	1.8	0.03	8.0	0.25
15.25	0.41	2.7	0.04	12.0	0.37

* Total pounds active of sulfentrazone + carfentrazone-ethyl

** Based on Aim 2EC formulation

*** Based on SPARTAN 4F formulation

CROP ROTATIONAL INTERVALS

Shown below are the minimum intervals in months from the time of SPARTAN CHARGE HERBICIDE application until SPARTAN CHARGE HERBICIDE treated soil may be replanted with the crops listed. When SPARTAN CHARGE HERBICIDE is tank mixed with other herbicide(s), refer to all those labels for re-cropping instructions, following the intervals that are the most restrictive. For crops not listed, the interval is 12 months in addition to a successful field bioassay.

The field bioassay is a test strip of the intended crop planted across the previously treated field and grown to maturity. The test strip should include low spots, knolls, and variable pH and soil types. If crop responses are not observed, the crop may be planted the following year.

CROP ROTATION INTERVALS*

CROP	INTERVAL (Months)
Alfalfa	12
Barley	4
Buckwheat	18
Cabbage (transplant only)	Anytime
Canola, Crambe	24
Corn, field	4
Corn, pop	12
Corn, seed	6
Corn, sweet	12
Cotton	18 or 12***
Dry Shell Peas	Anytime
Dry Shell Beans	4
Flax	Anytime
Garlic	36
Horseradish	Anytime
Lima Beans (Tennessee only)	Anytime
Oats	12
Peanuts	4 or Anytime††
Peppermint	Anytime
Potatoes	4
Rice	10
Rye	4
Sorghum	10**
Soybeans	Anytime
Spearmint	Anytime
Sugar Beets	36 or 24¹
Sugarcane	Anytime
Sunflowers	Anytime
Sweet Potatoes	12
Tobacco	Anytime
Tomato (Transplanted)	Anytime
Triticale	4
Turf	Anytime
Wheat	4

* For all other crops not listed, the rotation interval is a minimum of 12 months with a successful bioassay.

** 18 month rotation for rates above 10.2 fluid ounces per acre. Crops that have rotational intervals greater than 12 months after a SPARTAN CHARGE HERBICIDE application are the result of crop injury concerns. Only plant after a successful bioassay.

*** Cotton may be planted after 12 months where SPARTAN CHARGE HERBICIDE was applied at rates 8 oz/acre or less and meets the following conditions:

- Medium and fine soils
- pH <7.2
- Rainfall or irrigation must exceed 15" after application of SPARTAN CHARGE HERBICIDE to rotate to cotton.

¹Sugarbeets can be planted after 24 months with a successful bioassay

††Peanuts can be planted anytime only in the States of: AL, AR, GA, LA, MD, NC, SC, TN & VA.

REPLANTING INSTRUCTIONS

If the initial planting of labeled crops fails to produce a uniform stand, only labeled crops for SPARTAN CHARGE HERBICIDE or the tank mix partner; whichever is most restrictive, may be replanted. Do not retreat fields with a second application of SPARTAN CHARGE HERBICIDE or other herbicide containing sulfentrazone. When tank mixing with a labeled product, refer to the replant instructions for that product. Do not replant treated fields with any crop at intervals that are inconsistent with the CROP ROTATION INTERVALS on this label. When replanting use minimum soil tillage to preserve the herbicide barrier and achieve maximum weed control.

POSTEMERGENT WEEDS CONTROLLED Pre-Plant Burndown

(Refer to individual crop sections for preemergent weeds controlled).

When used as directed, SPARTAN CHARGE HERBICIDE will provide postemergent control of the following weeds (less than 3 inches tall) in a conventional till program. For complete no-till postemergence burndown control of the weeds listed and other no-till weeds a tank-mix of SPARTAN CHARGE HERBICIDE and glyphosate or other labeled burndown herbicide is recommended:

Weeds Controlled	SPARTAN CHARGE HERBICIDE use rate fluid ounce (lb ai) per acre
Morningglory, ivyleaf (up to 3 leaves)	3.75 (0.10)
Morningglory, pitted (up to 3 leaves)	
Nightshade, Eastern black	
Pigweed, redroot	
Velvetleaf	4.75 (0.13)
All the weeds controlled at 3.75 fluid ounces per acre plus the weeds listed below:	
Lambsquarters, common	
Morningglory, entireleaf	
Morningglory, ivyleaf	
Morningglory, pitted	
Morningglory, scarlet	
Nightshade, hairy	
Pennycress, field	
Pigweed, smooth	
All the weeds controlled at 4.75 fluid ounces per acre plus the weeds listed below:	6.0 (0.16)
Bedstraw, catchweed	
Buffalobur	
Carpetweed	
Copperleaf, hophornbeam	
Cotton, GMO varieties	
Cotton, volunteer	
Dayflower	
Jimsonweed	
Kochia	
Morningglory, ivyleaf	
Morningglory, tall	
Mustard, tansy	
Nightshade, American black	
Nightshade, black	
Shepherdspurse	
Smartweed	
Waterhemp	
All the weeds controlled at 6.0 fluid ounces per acre plus the weeds listed below:	
Lettuce, prickly	
Mallow, Venice (up to 2 inches tall)	
Meadowfoam	

CABBAGE (Transplanted Only)

Table 2

SPARTAN CHARGE HERBICIDE Use Rate Table (Cabbage) Fall or Spring Early Preplant, Preemergence, and Preplant Incorporated Applications			
Broadcast Rate	Fl oz (lb ai) SPARTAN CHARGE HERBICIDE per acre		
% Organic Matter	Soil Texture		
	Coarse	Medium	Fine
<1.5	2.9(0.08) - 3.8(0.10)	3.8(0.10) - 5.7(0.16)	3.8(0.10) - 7.6(0.21)
1.5-3.0	3.8(0.10) - 7.6(0.21)	7.6(0.21) - 11.4(0.31)	7.6(0.21) - 11.4(0.31)
>3.0	7.6(0.21) - 11.4(0.31)	7.6(0.21) - 15.2(0.41)	7.6(0.21) - 15.2(0.41)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories. Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.			

Early Preplant (Fall Application or Spring Application)

SPARTAN CHARGE HERBICIDE may be applied in the fall or spring preceding the growing season to control weeds prior to transplanting of cabbage. SPARTAN CHARGE HERBICIDE may be applied in the spring from 60 days up to transplanting time. SPARTAN CHARGE HERBICIDE should be applied to the harvested crop stubble or soil surface without incorporation. Moisture in the form of rain or snow will move and activate the product into the soil. Do not mechanically incorporate in the fall or spring after application as this may destroy the herbicide barrier and weed escapes can occur. Do not apply to frozen soils to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow that may occur following application.

SPARTAN CHARGE HERBICIDE may be tankmixed with other burndown herbicides to control emerged weeds in the fall or spring or with residual soil herbicides that are labeled for fall use on cabbage. Use the full, listed rates of burndown herbicides in combination with SPARTAN CHARGE HERBICIDE, or split applications as needed. Observe the most restrictive of all precautions, instructions, and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

Preplant Incorporated (PPI)

SPARTAN CHARGE HERBICIDE may be applied as a preplant incorporated treatment in the spring prior to transplanting of cabbage. Do not incorporate to depths greater than 2 inches. SPARTAN CHARGE HERBICIDE can be tankmixed with other burndown or soil-applied herbicides labeled for use in cabbage. Use the full, listed rates of burndown herbicides or split applications as needed. Observe the most restrictive of all precautions, instructions and rotational cropping guidelines of each product's label when tank mixing including all references to potential carryover and crop injury warnings or restrictions.

Transplant Cabbage

SPARTAN CHARGE HERBICIDE may be applied pre-emergence as a broadcast or banded treatment to transplanted cabbage only. Make broadcast or banded treatment applications prior to transplanting. SPARTAN CHARGE HERBICIDE may be applied as a banded treatment into the row middles within 72 hours after transplanting.

Weeds Controlled

When Applied according to directions, SPARTAN CHARGE HERBICIDE will provide control of:

Galinsoga, hairy	Waterhemp, common
Lambsquarters, common	Waterhemp, tall
Pigweed, redroot	

For information on other weeds not listed above, refer to **POSTEMERGENT WEEDS CONTROLLED SECTION** in this label.

Precautions

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE (sulfentrazone and carfentrazone) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Product Application Instructions, Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Restrictions

Do not apply more than 15.2 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per application or per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not incorporate to depths greater than 2 inches.

Pre-harvest Interval (PHI): 80 days

DRY SHELLLED PEAS

Chickpea, Pea (*Pisum*) (including Dry field pea) and Pigeon pea

Fall Applications

SPARTAN CHARGE HERBICIDE may be applied in the fall as a pre-plant treatment to control or suppress weeds prior to planting the following spring. Apply SPARTAN CHARGE HERBICIDE to the stubble or soil surface and allow moisture from rainfall or snow to move the product into the soil. Do not mechanically incorporate in the fall or spring as this can destroy the herbicide barrier and weed escapes can occur. Do not apply to frozen soils or to existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow melt that may occur following application. SPARTAN CHARGE HERBICIDE may be tank mixed with other residual soil herbicides that are labeled for fall use on dry bean and dry peas. If weeds are emerged at the time of SPARTAN CHARGE HERBICIDE application, use a burndown herbicide such as glyphosate or paraquat at the full-labeled rate in combination with SPARTAN CHARGE HERBICIDE or split application as needed. Select the appropriate rate from Table 3 within the correct soil type and organic matter range. When applying SPARTAN CHARGE HERBICIDE in the fall, use a mid to high rate within the rate range for the appropriate soil type and organic matter.

Preplant Burndown, Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides or liquid fertilizers as a burndown or preemergence treatment prior to planting or up to 3 days after planting dry shelled peas and beans to control or suppress weeds. Properly closed seed furrows are required when applying at planting time. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. When tank mixing SPARTAN CHARGE HERBICIDE with other products be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 3

SPARTAN CHARGE HERBICIDE Use Rate Table (Dry Shelled Peas)			
Fall, Early Preplant, and Preemergence			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE per acre*		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.0(0.08)-3.75(0.10)	3.75(0.1) – 5.75(0.16)	3.75(0.10) – 5.75(0.16)
1.5-3.0	3.75(0.10) – 5.75(0.16)	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 7.75(0.21)
>3.0	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 8.6(0.23)	6.7(0.18) – 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5%) and/or pH of 7.8 or higher, or on highly eroded soils (such as hilltops), or in areas of calcareous outcroppings. Reduce the use rates of SPARTAN CHARGE HERBICIDE or do not apply it in those areas to avoid crop injury. Inadequate seed furrow closure or shallow planting (less than 1.0 inch) may result in undesirable crop response. As expected, poor growing conditions such as excessive moisture, low temperatures, soil compaction and diseases may also cause undesirable crop response. On coarse soil, best results are achieved with SPARTAN CHARGE HERBICIDE when applications are made early preplant and greater than 14 days before planting.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Thorough coverage is essential for control of small susceptible broadleaf weeds. If thorough coverage is not achieved, postemergent weed control will be poor. Optimum broad-spectrum control of annual and perennial weeds requires a tank-mix of with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat.

If adequate moisture (1/2" to 1" of rainfall or irrigation) is not received within 7 to 10 days and also if dry conditions persist throughout the growing season, erratic preemergent weed control may result. Additional moisture is needed throughout the growing season to maintain herbicide activity and prevent weed escapes.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POST-EMERGENT WEEDS CONTROLLED SECTION for postemergent weeds controlled):

Amaranth, Palmer	Pigweed, red root
Filaree, redstem	Pigweed, smooth
Kochia (ALS and Triazine Resistant)	Sida, prickly
Lambsquarters, common	Thistle, Russian
Morningglory, ivyleaf	Waterhemp, common
Morningglory, tall	Waterhemp, tall
Nightshade, Eastern black	

Restrictions

Do not apply SPARTAN CHARGE HERBICIDE after crop emergence, or if the seedling is close to the soil surface, as undesirable crop response may occur.

Do not apply more than 10.2 fluid ounces per acre per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or to existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow melt that may occur following application.

FALLOW SYSTEMS

SPARTAN CHARGE HERBICIDE may be used in fallow cropping systems for weed control for soil moisture conservation using rates in Table 4. Follow crop rotational restrictions when replanting following SPARTAN CHARGE HERBICIDE applications.

Table 4

SPARTAN CHARGE HERBICIDE Use Rate Table			
Fallow Applications			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.75(0.10) – 5.0(0.14)	3.75(0.10) – 5.75(0.16)	5.0(0.14) – 6.5(0.18)
1.5-3.0	3.75(0.10) – 5.75(0.16)	5.0(0.14) – 7.75(0.21)	5.75 (0.16)– 8.5(0.23)
>3.0	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 8.5(0.23)	6.5(0.18) – 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Adjuvant Requirements

For optimum control of emerged weeds a nonionic surfactant, crop oil concentrate, methylated seed oil, or equivalent adjuvant is required. Use a nonionic surfactant (NIS) at 0.25% v/v (2 pints/100 gallons of spray solution) having at least 80% active ingredient or a petroleum or oil seed based crop oil concentrate (COC) at 1.5 to 2.0% v/v (1.5 to 2.0 gallons per 100 gallons of spray solution) or a methylated seed oil (MSO). A high quality sprayable liquid nitrogen fertilizer at 2.0 to 4.0% v/v (2 to 4 gallons per 100 gallons) or ammonium sulfate at 2 to 4 pounds per acre may be used in addition to the selected NIS, COC, or MSO. When an adjuvant is to be used with this product, FMC recommends use of a Chemical Producers and Distributors Association certified adjuvant.

Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. When tank mixing SPARTAN CHARGE HERBICIDE with other products be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

For all products used in tank mixes refer to the specific product labels for all restrictions on tank mixing and observe the most restrictive of all label precautions, instructions, and rotational cropping restrictions.

Precautions

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Thorough coverage is essential for control of small susceptible broadleaf weeds. If thorough coverage is not achieved, postemergent weed control will be poor. If adequate moisture (1/2" to 1" of rainfall or irrigation) is not received within 7 to 10 days and also if dry conditions persist throughout the growing season, erratic preemergent weed control may result. Additional moisture is needed throughout the growing season to maintain herbicide activity and prevent weed escapes.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POSTEMERGENT WEEDS CONTROLLED section for postemergent weeds controlled):

Kochia (ALS and Triazine Resistant)	Pigweed, redroot
Lambsquarters, common	Pigweed, smooth
Morningglory, ivyleaf	Thistle, Russian
Morningglory, tall	Waterhemp, common
Nightshade, Eastern Black	Waterhemp, tall

Restrictions

Do not apply more than 10.2 fluid ounces per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snowmelt that may occur following application.

FLAX

APPLICATION TIMING - Fall Application, Early Preplant, and Preemergence Applications

FALL APPLICATION

SPARTAN CHARGE HERBICIDE may be applied in the fall following crop harvest or in existing fallow fields to control or suppress weeds the following season. The SPARTAN CHARGE HERBICIDE Rotational Crop Guidelines must be followed if crops are planted the next season. Apply SPARTAN CHARGE HERBICIDE to the harvested crop stubble or soil surface without incorporation. Moisture in the form of rain or snow will move and activate the product. Do not mechanically incorporate in the fall or spring after application because this activity may destroy the herbicide barrier and weed escapes can occur. Do not apply to frozen soils to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow that may occur following application. SPARTAN CHARGE HERBICIDE may be tank mixed with herbicides to control emerged weeds. Sequential applications of burndown herbicides may be needed depending on weed size. In situations where weed size may interfere with SPARTAN CHARGE HERBICIDE reaching the soil surface, a separate burndown application prior to the application of SPARTAN CHARGE HERBICIDE will be required. Use full, label-listed rates of burndown herbicides in combination with SPARTAN CHARGE HERBICIDE, or sequential applications as needed. Higher aerial spray volumes are required when there is a dense weed population or canopy. Thorough coverage is essential for post-emergence control of small susceptible labeled broadleaf weeds in combination with glyphosate.

SPARTAN CHARGE HERBICIDE can be tank mixed with other herbicides. Observe the most restrictive of all precautions, instructions, and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

SPRING APPLICATION - Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides as a preemergence treatment prior to planting or up to 3 days after planting flax for preemergence control of susceptible broadleaf weeds using rates listed in the table below. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

When tank mixing SPARTAN CHARGE HERBICIDE with other products be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 5

SPARTAN CHARGE HERBICIDE Use Rate Table (Flax) Fall, Preplant Burndown, Early Preplant, and Preemergence			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.75(0.10) - 5.0(0.14)	3.75(0.10) - 5.75(0.16)	5.0(0.14) - 6.5(0.18)
1.5-3.0	3.75(0.10) - 5.75(0.16)	5.0(0.14) - 7.75(0.21)	5.75(0.16) - 8.5(0.23)
>3	5.0(0.14) - 7.75(0.21)	5.75(0.16) - 8.5(0.23)	7.75(0.21) - 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5%) and pH of 7.0 or higher, or on highly eroded soils, hill tops, or in areas of calcareous outcroppings. Reduce SPARTAN CHARGE HERBICIDE use rates to 3.75 oz/A or do not apply in those areas to avoid crop injury. Inadequate seed furrow closure or shallow planting (less than 1.0 inch) may result in undesirable crop response. As expected, poor growing conditions such as excessive moisture, low temperatures, soil compaction and diseases may also cause undesirable crop response.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, SPARTAN CHARGE HERBICIDE Product Use Rates, Crop Rotational Intervals, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Weed Control

Thorough coverage is essential for control of small susceptible, emerged broadleaf weeds. If thorough coverage is not achieved, post-emergence weed control will be poor. Optimum broad-spectrum post-emergent control of emerged weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate. Failure to achieve adequate burndown of existing vegetation prior to flax planting can result in poor crop growing conditions the remainder of the season. When tank-mixing SPARTAN CHARGE HERBICIDE with other burndown herbicides for control of emerged weeds, it is recommended to use a full rate of the tank-mix herbicide. If adequate moisture (1/2" to 1" of rainfall or irrigation) is not received within 7 to 10 days and also if dry conditions persist throughout the growing season, erratic preemergence weed control may result. Additional moisture is needed throughout the growing season to maintain herbicide activity and prevent weed escapes.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergence control of the following weeds (refer to POSTEMERGENT WEEDS CONTROLLED section for postemergence weeds controlled):

Kochia (ALS and Triazine Resistant)	Morningglory, tall*
Morningglory, ivyleaf*	Nightshade, Eastern black

* Partial or reduced control of the weeds listed above will occur under dry conditions, under heavy pest pressure or at low use rates under 5.75 oz.

Restrictions

Do not apply SPARTAN CHARGE HERBICIDE after crop emergence, or if the seedling is close to the soil surface as undesirable crop response may occur.

Do not apply more than 10.2 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snowmelt that may occur following application.

HORSERADISH

Table 6

SPARTAN CHARGE HERBICIDE Use Rate Table (Horseradish) Fall or Spring Early Preplant, Preemergence, and Preplant Incorporated Applications			
Broadcast Rate	Fl oz (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	2.9(0.08) - 5.7(0.16)	3.8(0.10) - 5.7(0.16)	3.8(0.10) - 5.7(0.16)
1.5-3.0	5.7(0.16) - 7.6(0.21)	7.6(0.21) - 10.2(0.28)	7.6(0.21) - 10.2(0.28)
>3.0	7.6(0.21) - 9.8(0.27)	7.6(0.21) - 10.2(0.28)	7.6(0.21) - 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.			

SPARTAN CHARGE HERBICIDE may be applied as an preplant pre-emerge or preplant incorporated treatment by ground in a minimum of 15 gallons of finished spray.

Early Preplant (Fall Application or Spring Application)

SPARTAN CHARGE HERBICIDE may be applied in the fall or spring preceding the growing season to control or suppress weeds prior to or up to the planting of horseradish. SPARTAN CHARGE HERBICIDE may be applied in the spring from 60 days prior to planting up to planting. Apply SPARTAN CHARGE HERBICIDE to the harvested crop stubble or soil surface without incorporation. Moisture in the form of rain or snow will move and activate the product into the soil. Do not mechanically incorporate in the fall or spring after application as this may destroy the herbicide barrier and weed escapes may occur. Do not apply to frozen soils to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow that may occur following application. SPARTAN CHARGE HERBICIDE may be tankmixed with other burndown herbicides to control emerged weeds in the fall or spring or with residual soil herbicides that are labeled for use on horseradish. Use full, listed rates of burndown herbicides in combination with SPARTAN CHARGE HERBICIDE, or split applications as needed. Observe the most restrictive of all precautions, instructions, and rotational cropping guidelines of each product label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

Preplant Incorporated (PPI)

SPARTAN CHARGE HERBICIDE may be applied as a preplant incorporated treatment in the spring prior to planting of horseradish. Do not incorporate to depths greater than 2 inches. SPARTAN CHARGE HERBICIDE can be tankmixed with other burndown or soil-applied herbicides labeled for use on horseradish. Use the full, listed rates of burndown herbicides or split applications as needed. Observe the most restrictive of all precautions, instructions and rotational cropping guidelines of each product's label when tank mixing including all references to potential carryover and crop injury warnings or restrictions.

Pre-Emergence (PRE)

SPARTAN CHARGE HERBICIDE may be applied pre-emergence as a broadcast or banded treatment on horseradish. Make broadcast applications prior to planting, or soon after planting but at least 5 days before crop emergence. SPARTAN CHARGE HERBICIDE may be applied as a banded treatment into the row middles after crop emergence. Use the higher SPARTAN CHARGE HERBICIDE rates on clay soils and/or soils with greater than 1% organic matter. SPARTAN CHARGE HERBICIDE may be applied with other pesticides registered for use on horseradish.

Weeds Controlled

When applied according to directions, SPARTAN CHARGE HERBICIDE will provide control of:

Lambsquarters, common	Pigweed, redroot
Morningglory, ivyleaf	Waterhemp, common
Nutsedge, yellow	Waterhemp, tall

For information on other weeds not listed above, refer to **POSTEMERGENT WEEDS CONTROLLED** section in this label.

Precautions

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE (sulfentrazone and carfentrazone) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Restrictions

Do not apply more than 10.2 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per application or per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

Do not apply directly on the crop after the crop emerges or if the seedling sprouts are close to the soil surface.

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

Do not incorporate to depths greater than 2 inches.

LIMA BEANS, SUCCULENT (Tennessee Only)

Preplant Burndown, Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides or liquid fertilizers as a burndown or preemergence treatment prior to planting lima beans to control or suppress weeds. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

For applications 14-21 or more days prior to planting, use the mid to high rate in the appropriate rate range for the soil and organic matter type in Table 6. Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. When tank mixing SPARTAN CHARGE HERBICIDE with other products be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 7

SPARTAN CHARGE HERBICIDE Use Rate Table (Lima Beans, Succulent)			
Preplant Burndown, Early Preplant, and Preemergence			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.0(0.08) – 5.0(0.14)	3.8(0.10) – 7.75(0.21)	4.8(0.13) – 7.75(0.21)
1.5 – 3.0	3.8(0.10) – 5.75(0.16)	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 7.75(0.21)
>3.0	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 7.75(0.21)	6.7(0.18) – 7.75(0.21)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

When applying SPARTAN CHARGE HERBICIDE to coarse textured soils, it is recommended that growers allow a minimum of 7-14 days from application to planting. Best results are achieved with SPARTAN CHARGE HERBICIDE when applications are made early preplant and greater than 14 days before planting.

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1%) and pH of 7.8 or higher, or on highly eroded soils, or in areas of calcareous outcroppings. Reduce SPARTAN CHARGE HERBICIDE use rates in those areas to avoid crop injury. Inadequate seed furrow closure or shallow planting (less than 1.0 inch) may result in undesirable crop response. As expected, poor growing conditions such as excessive moisture, low temperatures, soil compaction and diseases may also cause undesirable crop response.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Thorough coverage is essential for control of small susceptible broadleaf weeds. If thorough coverage is not achieved, postemergent weed control will be poor. Optimum broad-spectrum control of annual and perennial weeds requires a tank-mix of with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POSTEMERGENT WEEDS CONTROLLED SECTION for postemergent weeds controlled):

Copperleaf, hophornbeam	Pigweed, redroot
Morningglory, entireleaf	Pigweed, smooth
Morningglory, ivyleaf	

Restrictions

Do not apply SPARTAN CHARGE Herbicide after crop emergence, or if the seedling is close to the soil surface, as undesirable crop response may occur.

Do not apply more than 7.75 fluid ounces per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or to existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow melt that may occur following application.

PEANUTS

SOUTHEASTERN UNITED STATES ONLY

(AL, AR, GA, LA, MS, NC, SC, TN & VA)

Preplant Burndown, Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides or liquid fertilizers as a burndown or preemergence treatment prior to planting or within 3 days after planting peanuts to control or suppress weeds using rates in Table 8. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. When tank mixing SPARTAN CHARGE HERBICIDE with other products, be sure to add SPARTAN CHARGE HERBICIDE after any dry formulations (e.g. wettable powder, dry flowables) in spray tank. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 8

SPARTAN CHARGE HERBICIDE Use Rate Table (Peanuts) Preplant Burndown, Early Preplant, and Preemergence			
Broadcast Rate	Fl oz (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.0(0.08) – 3.75(0.10)	3.75(0.10) – 5.75(0.16)	3.75(0.10) – 5.75(0.16)
1.5-3.0	3.75(0.10) – 5.75(0.16)	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 7.75(0.21)
>3.0	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 7.75(0.21)	6.5(0.18) – 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

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

SPARTAN CHARGE HERBICIDE is especially effective against a wide range of economic broadleaf weeds. The same processes that SPARTAN CHARGE HERBICIDE affects in these weeds can, under certain conditions, be affected in peanuts. These conditions include high pH (7.0 and above), cool weather, prolonged and excessive moisture, seedling diseases, and any other condition, including poor agronomic practices, that are unfavorable to vigorous crop growth. Such effects in peanuts are often observed as stunting and discoloration. The duration of these effects are somewhat dependent on the duration of the adverse growing conditions. These effects lessen and generally diminish with a return to normal growing conditions. **Thorough coverage is essential for control of small susceptible broadleaf weeds.** If thorough coverage is not achieved, postemergent weed control will be poor

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POST-EMERGENT WEEDS CONTROLLED SECTION for postemergent weeds controlled):

BROADLEAVES	
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, spiny	<i>Amaranthus, spinosus</i>
Amaranth, spleen	<i>Amaranthus dubius</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</i>
Morningglory, Entireleaf	<i>Ipomea hederacea integrisc</i>
Morningglory, Ivyleaf	<i>Ipomea hederacea hederacea</i>
Morningglory, Palmleaf	<i>Ipomea Wrightii</i>
Morningglory, purple	<i>Ipomea turbinate</i>
Morningglory, red	<i>Ipomea coccinea</i>
Morningglory, scarlet	<i>Ipomea hederifolia</i>
Morningglory, Smallflower	<i>Jacquemontia tamnifolia</i>
Morningglory, tall	<i>Ipomea, purpurea</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, Eastern black	<i>Solanum americanum</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Smartweed, PA (seedling)	<i>Polygonum pensylvanicum</i>
Thistle, Russian	<i>Lactuca serriola</i>
Waterhemp, common	<i>Amaranthus rudis</i>
Waterhemp, tall	<i>Amaranthus tuberculatus</i>
SEDGES (suppression only)	
Nutsedge, purple	<i>Cyperus rotundus</i>
Nutsedge, yellow	<i>Cyperus esculentus</i>
Sedge, annual	<i>Cares spp.</i>

Restrictions

Do not apply SPARTAN CHARGE Herbicide after crop emergence, at cracking, or if the seedling is close to the soil surface, as undesirable crop response may occur.

Do not apply more than 7.0 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snowmelt that may occur following application. Do not apply after crop seed germination.

Do not irrigate when peanuts are cracking.

Do not feed treated peanut forage or peanut hay to live stock

Do not irrigate with water having a pH higher than 9.

SOD PRODUCTION (Except FL, CA and NY)

SPARTAN CHARGE HERBICIDE may be applied to established seeded, sodded or sprigged turfgrasses following the second mowing for the control of key grass, sedge and broadleaf weeds. Turf grasses should have developed a good root system, a uniform stand with healthy root systems to fill in the exposed edges prior to application. Sod injury could result from application of this product on sod that is not well established or has been weakened by stresses such as unfavorable weather conditions, diseases, chemical, recent harvesting or mechanical influences.

Turf Grass Tolerance

When applied as directed, the following established turf grasses are tolerant to SPARTAN CHARGE HERBICIDE at the listed use rates.

Table 9 Tolerant grasses

Grass Type	Maximum Use Rate For Single Application
Cool Season Grasses **	Fl oz (lb ai) of SPARTAN CHARGE HERBICIDE Per Acre
Bentgrass, creeping	5.1(0.14)
Fescue, fine * (Festuca rubra) Fescue, tall * (Festuca arundinacea) Ryegrass, perennial (Lolium perenne) Bluegrass, Kentucky (Poa pratensis) Bluegrass, Rough (Poa trivialis)	5.1(0.14) - 10.2(0.28)
Warm Season Grasses **	
Bahiagrass (Paspalum notatum) Buffalograss (Buchloe dactyloides) Carpetgrass (Axonopus affinis) Centipedegrass (Eremochloa ophioides) Kikuyugrass (Pennisetum clandestinum) Seashore Paspalum (Paspalum vaginatum) Zoysiagrass (Zoysia japonica) Bermudagrass (Cynodon dactylon) Bermudagrass Hybrids St. Augustinegrass (Stenotaphrum secundatum)	10.2(0.28) - 15.2(0.41)

* Applications of SPARTAN CHARGE HERBICIDE to certain varieties of Chewings Fine Fescue or Tall Fescue may result in undesirable plant response.

** It is important to note that not all varieties or cultivars have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Applications to Reseeded, Overseeded or Sprigged Areas

Reseeding, overseeding or sprigging may be done following SPARTAN CHARGE HERBICIDE applications to turfgrasses. If reseeding, overseeding or sprigging is done within 1 month following a SPARTAN CHARGE HERBICIDE treatment, the establishment of desirable grasses may be inhibited. Overseeding of bermudagrass with perennial ryegrass may be done two (2) to four (4) weeks following a SPARTAN CHARGE HERBICIDE application provided slight grass plant response can be tolerated.

Optimum reseeding and overseeding results may be obtained with the use of mechanical or power seeding equipment, and where proper soil cultivation, irrigation and fertilization practices are followed.

Adjuvant use

Good spray coverage is required for optimum control of weeds. Temporary discoloration of some sod species may result from use of surfactant. Use of surfactants is not recommended.

Postemergence Control of Sedges

SPARTAN CHARGE HERBICIDE may be applied at the rate of 4 to 12 fluid ounces per acre to established turf grasses for the control or suppression of sedges. Select the correct SPARTAN CHARGE HERBICIDE use rate from Table 9.

When applied as directed, SPARTAN CHARGE HERBICIDE will provide control or suppression of the following sedges.

Table 10

Common Name	Scientific Name
Kyllinga, green	<i>Kyllinga brevifolia</i>
Kyllinga, false green	<i>Kyllinga gracillima</i>
Nutsedge, purple	<i>Cyperus rotundus</i>
Nutsedge, yellow	<i>Cyperus esculentus</i>
Sedge, cylindrical	<i>Cyperus retrorsus</i>
Sedge, globe	<i>Cyperus globulosus</i>
Sedge, Surinam	<i>Cyperus surinamensis</i>
Sedge, Texas	<i>Cyperus polystachyos</i>

Purple nutsedge: For optimum control of purple nutsedge, split applications are listed below. Apply 4 to 8 ounces per acre as an initial application followed by a second application when evidence of actively growing purple nutsedge is visible. Do not exceed the maximum rate per acre based on the turf variety as listed in Table 9; tolerant grasses.

Split Application Rates for Optimum Purple Nutsedge Control

Grass Type	First Application (fl. oz (lb ai) per acre)	Second Application (fl. Oz (lb ai). per acre)
Cool Season Grasses	2.5(0.07) - 5.1(0.14)	2.5(0.07) - 7.6(0.21)
Warm Season Grasses	5.1(0.14) - 7.6(0.21)	5.1(0.14) - 7.6(0.21)

Allow 35 days after first application for second application.

Postemergence Control of Grassy Weeds

SPARTAN CHARGE HERBICIDE will control or suppress specific annual grasses (Table 11) when applied at a rate of 4 to 12 fl oz/acre. Apply the highest rate consistent with the rate needed for turfgrass tolerance in Table 9. Rates lower than 12 fl oz/acre will generally control grasses for at least 60 days. SPARTAN CHARGE HERBICIDE works best if applied when the annual grasses are small (pre tiller stage) and actively growing.

Table 11

Common Name	Scientific Name
Goosegrass	<i>Eleusine indica</i>

Postemergence Control of Broadleaf Weeds

SPARTAN CHARGE HERBICIDE will control or suppress the weeds listed in the broadleaf chart below when applied alone shortly after weeds have emerged. SPARTAN CHARGE HERBICIDE may be applied at the rate of 4 to 12 fluid ounces per acre to established turf grasses for the control or suppression of broadleaf weeds. Select the correct SPARTAN CHARGE HERBICIDE use rate from Table 9. For optimum results, make SPARTAN CHARGE HERBICIDE applications shortly after weeds have emerged.

SPARTAN CHARGE HERBICIDE may be tankmixed with other herbicides, insecticides and fungicides registered for use on turfgrasses. Read and follow the label directions and restrictions of the tank mix partner to determine turfgrass specie tolerance, use rates and application requirements. Follow all label restrictions, use directions and precautionary statements before use.

When applied as directed, SPARTAN CHARGE HERBICIDE will provide control or suppression of the following broadleaf weeds.

Broadleaves	Scientific Name
Bittercress	<i>Cardamine spp.</i>
Black Medic	<i>Medicago lupulina</i>
Buttercup	<i>Ranunculus spp.</i>
Carolina geranium	<i>Geranium carolinianum</i>
Carpetweed	<i>Mollugo verticillata</i>
Chickweed, common	<i>Stellaria media</i>
Chickweed, mouseear	<i>Cerastium vulgatum</i>
Cinquefoil	<i>Potentilla spp.</i>
Clover	<i>Trifolium spp.</i>
Cudweed	<i>Gnaphalium spp.</i>
Dandelion	<i>Taraxacum officinale</i>
Dock, curly	<i>Rumex crispus</i>
Evening primrose	<i>Oenothera biennis</i>
Fiddleneck	<i>Amsinckia spp.</i>
Filaree	<i>Erodium spp.</i>
Garlic, wild	<i>Allium vineale</i>
Goldenrod	<i>Solidago spp.</i>
Ground ivy	<i>Glechoma hederacea</i>
Henbit	<i>Lamium amplexicaule</i>
Knotweed, prostrate	<i>Polygonum aviculare</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</i>
Lawn burweed	<i>Soliva pterosperma</i>
Lespedeza, common	<i>Lespedeza striata</i>
Mallow, common	<i>Malva neglecta</i>
Onion, wild	<i>Allium canadense</i>
Parsley piert	<i>Alchemilla arvensis</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, tumble	<i>Amaranthus albus</i>
Pineapple weed	<i>Matricaria matricariodes</i>
Plantain, buckhorn	<i>Plantago lanceolata</i>
Puncture weed	<i>Tribulus terrestris</i>
Purslane, common	<i>Portulaca oleracea</i>
Pusley, Florida	<i>Richardia scabra</i>
Redweed	<i>Melochia corchorifolia</i>
Rocket, London	<i>Sisymbrium irio</i>
Smartweed, PA	<i>Polygonum pennsylvanicum</i>
Sorrel, red	<i>Rumex acetosella</i>
Speedwell	<i>Veronica spp.</i>
Spurge, annual	<i>Euphorbia spp.</i>
Spurge, prostrate	<i>Euphorbia humistrata</i>
Spurge, spotted	<i>Euphorbia maculata</i>
Star of Bethlehem	<i>Omithogalum umbellatum</i>
Velvetleaf	<i>Abutilon theophrasti</i>
Violet, wild	<i>Viola pratensis</i>
Woodsorrel, creeping	<i>Oxalis corniculata</i>
Woodsorrel, yellow	<i>Oxalis stricta</i>

Precautions

The use of additional surfactants may cause temporary undesirable effects to turfgrasses.

Restrictions

Sod production areas must be established three (3) months prior to the initial treatment of SPARTAN CHARGE HERBICIDE.

Do not apply SPARTAN CHARGE HERBICIDE to golf course greens or tees.

Do apply SPARTAN CHARGE HERBICIDE to turf grasses not listed on this label.

Do not apply with surfactants without on-site evaluations for spray mixture compatibility and physical effects to turf grasses.

Do not graze or feed forage harvested from SPARTAN CHARGE HERBICIDE treated areas.

Do not apply to landscape ornamental plants or ornamental beds.

Do not harvest sod within three (3) months of SPARTAN CHARGE HERBICIDE application.

SOYBEANS

Preplant Burndown, Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides or liquid fertilizers as a burndown or preemergence treatment prior to planting or within 3 days after planting soybeans to control or suppress weeds using rates in Table 12. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. SPARTAN CHARGE HERBICIDE applied early pre-plant must be applied in combination with the appropriate burndown herbicide such as glyphosate, glufosinate, gramoxone, and/or 2,4-D to achieve acceptable control of existing weeds during application. When tank mixing SPARTAN CHARGE HERBICIDE with other products, be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 12

SPARTAN CHARGE HERBICIDE Use Rate Table (Soybeans) Preplant Burndown, Early Preplant, and Preemergence			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	5.75(0.16) – 7.75(0.21)	7.75(0.21) - 8.5(0.23)	8.5(0.23)
1.5-3	7.75(0.21) – 8.5(0.23)	8.5(0.23)	8.5(0.23)
>3.0	8.5(0.23)	8.5(0.23)	8.5(0.23)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

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

SPARTAN CHARGE HERBICIDE is especially effective against a wide range of economic broadleaf weeds. The same processes that SPARTAN CHARGE HERBICIDE affects in these weeds can, under certain conditions, be affected in soybeans. These conditions include high pH (7.5 and above), cool weather, prolonged and excessive moisture, seedling diseases, and any other condition, including poor agronomic practices, that are unfavorable to vigorous crop growth. Such effects in soybeans are often observed as stunting and discoloration. The duration of these effects are somewhat dependent on the duration of the adverse growing conditions. These effects lessen and generally diminish with a return to normal growing conditions. **Thorough coverage is essential for control of small susceptible broadleaf weeds.** If thorough coverage is not achieved, postemergent weed control will be poor.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POSTEMERGENT WEEDS CONTROLLED SECTION for postemergent weeds controlled):

BROADLEAVES	
Amaranth, Palmer	<i>Amaranthus palmeri</i>
Amaranth, spiny	<i>Amaranthus spinosus</i>
Amaranth, spleen	<i>Amaranthus dubius</i>
Jimsonweed	<i>Datura stramonium</i>
Kochia	<i>Kochia scoparia</i>
Lambsquarters, common	<i>Chenopodium album</i>
Morningglory, Entireleaf	<i>Ipomea hederacea integrisc</i>
Morningglory, Ivyleaf	<i>Ipomea hederacea hederacea</i>
Morningglory, Palmleaf	<i>Ipomea Wrightii</i>
Morningglory, purple	<i>Ipomea turbinata</i>
Morningglory, red	<i>Ipomea coccinea</i>
Morningglory, scarlet	<i>Ipomea hederifolia</i>
Morningglory, Smallflower	<i>Jacquemontia tamnifolia</i>
Morningglory, tall	<i>Ipomea, purpurea</i>
Nightshade, black	<i>Solanum nigrum</i>
Nightshade, Eastern black	<i>Solanum americanum</i>
Pigweed, redroot	<i>Amaranthus retroflexus</i>
Pigweed, smooth	<i>Amaranthus hybridus</i>
Smartweed, PA (seedling)	<i>Polygonum pensylvanicum</i>
Thistle, Russian	<i>Lactuca serriola</i>
Waterhemp, common	<i>Amaranthus rudis</i>
Waterhemp, tall	<i>Amaranthus tuberculatos</i>
SEDGES	
Nutsedge, purple	<i>Cyperus rotundus</i>
Nutsedge, yellow	<i>Cyperus esculentus</i>
Sedge, annual	<i>Cares spp.</i>

Restrictions

Do not apply SPARTAN CHARGE HERBICIDE after crop emergence, or if the seedling is close to the soil surface, as undesirable crop response may occur.

Do not apply more than 8.5 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snowmelt that may occur following application. Do not apply after crop seed germination.

SUGARCANE

Table 13

SPARTAN CHARGE HERBICIDE Use Rate Table (Sugarcane) Planting Time and Lay-by Applications			
Broadcast Rate	Fluid Ounces (lb ai) per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	5.7 (0.16)-7.6(0.21)	7.6(0.21)-10.2(0.28)	10.2(0.28)
1.5-3	7.6(0.21)-10.5(0.29)	10.2(0.28)-12.8(0.35)	12.8(0.35)
>3	10.2(0.28)-12.8(0.35)	12.8(0.35)-15.2(0.41)	15.2(0.41)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.			

Apply SPARTAN CHARGE HERBICIDE as a broadcast or banded pre-emerge soil applied treatment for the control of broadleaf weeds, grasses and sedges in sugarcane. Refer to the SPARTAN CHARGE HERBICIDE Product Use Rate Section and Table 13 for specific use information.

Planting Time Applications

Apply SPARTAN CHARGE HERBICIDE preemerge 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 CHARGE HERBICIDE may be applied with other herbicides registered for use in sugarcane.

Lay-by Applications

Apply SPARTAN CHARGE HERBICIDE as a directed spray to sugarcane at lay-by timing. Use the higher rate on clay soils and/or soils with organic matter content higher than 2 percent. Apply as a directed spray with ground equipment in a minimum of 15 gallons of spray per acre. SPARTAN CHARGE HERBICIDE may be applied with other herbicides registered for use in sugarcane.

Weeds Controlled

When applied according to directions, SPARTAN CHARGE HERBICIDE will provide control of:

Morningglory, entireleaf	Morningglory, tall
Morningglory, ivyleaf	Pigweed, red root
Morningglory, red	Nutsedge, yellow

For information on other weeds not listed above, refer to POSTEMERGENT WEEDS CONTROLLED SECTION in this label.

Precautions

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE (sulfentrazone + carfentrazone) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, SPARTAN CHARGE HERBICIDE Product Use Rates, Rotational Crop Guidelines, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Restrictions

Pre-harvest Interval (PHI): Do not apply within 120 days of harvest.

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

Do not allow spray to contact crop leaves.

Do not apply more than 15.2 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per acre per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

SUNFLOWERS

Fall Application, Preplant Burndown, Early Preplant, and Preemergence Applications

Fall Application

SPARTAN CHARGE HERBICIDE may be applied in the fall following crop harvest or in existing fallow fields to control or suppress weeds the following season. The SPARTAN CHARGE HERBICIDE Rotational Crop Guidelines must be followed if crops are planted the next season. Apply SPARTAN CHARGE HERBICIDE to the harvested crop stubble or soil surface without incorporation. Moisture in the form of rain or snow will move and activate the product. Do not mechanically incorporate in the fall or spring after application because this activity may destroy the herbicide barrier and weed escapes can occur. Do not apply to frozen soils to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snow that may occur following application. SPARTAN CHARGE HERBICIDE may be tank mixed with herbicides to control emerged weeds. Sequential applications may be needed depending on weed size. In situations where weed size may interfere with SPARTAN CHARGE HERBICIDE reaching the soil surface, a separate burndown application prior to the application of SPARTAN CHARGE HERBICIDE will be required. Use full, listed rates of burndown herbicides in combination with SPARTAN CHARGE HERBICIDE, or sequential applications as needed. Higher aerial spray volumes are required when there is a dense weed population or canopy.

SPARTAN CHARGE HERBICIDE can be tank mixed with other herbicides. Observe the most restrictive of all precautions, instructions, and rotational cropping guidelines of each product's label when tank mixing, including all references to potential carryover and crop injury warnings or restrictions.

Preplant Burndown, Early Preplant, and Preemergence Applications

Apply SPARTAN CHARGE HERBICIDE alone or with other herbicides or liquid fertilizers as a burndown or preemergence treatment prior to planting or up to 3 days after planting sunflowers to control or suppress weeds using rates in Table 14. Properly closed seed furrows are required when applying at planting time or before seed germination. When planting into soil treated preplant with SPARTAN CHARGE HERBICIDE, minimize soil disturbance to maintain the herbicide barrier on the soil surface to achieve maximum weed control.

Optimum broad-spectrum control of annual and perennial weeds requires a tank mix with a broad-spectrum burndown herbicide such as glyphosate, glufosinate, or paraquat. When tank mixing SPARTAN CHARGE HERBICIDE with other products be sure the SPARTAN CHARGE HERBICIDE is added to the spray tank water first. For specific mixing instructions refer to the Mixing and Loading instructions section of this label.

Table 14

SPARTAN CHARGE HERBICIDE Use Rate Table (Sunflowers) Fall, Preplant Burndown, Early Preplant, and Preemergence			
Broadcast Rate	Fluid Ounces (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	3.8(0.10) – 5.0(0.14)	3.8(0.10) – 5.75(0.16)	5.0(0.14) – 6.7(0.18)
1.5-3.0	3.8(0.10) – 5.75(0.16)	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 8.6(0.23)
>3.0	5.0(0.14) – 7.75(0.21)	5.75(0.16) – 8.6(0.23)	7.75(0.21) – 10.2(0.28)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lowest rate for pH greater than 7.0 within the rate range.			

Precautions

Some adverse crop response may occur on coarse textured soils with low organic matter (less than 1.5%) and pH of 7.8 or higher, or on highly eroded soils, hill tops, or in areas of calcareous outcroppings. Reduce SPARTAN CHARGE HERBICIDE use rates or do not apply in those areas to prevent crop injury. Inadequate seed furrow closure or shallow planting (less than 1.0 inch) may result in undesirable crop response. As expected, poor growing conditions such as excessive moisture, low temperatures, soil compaction and diseases may also cause undesirable crop response.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under General Application Instructions, General SPARTAN CHARGE HERBICIDE Product Use Rates, Crop Rotational Intervals, Replanting Instructions, Weed Controlled and any other section of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Thorough coverage is essential for control of small susceptible broadleaf weeds. If thorough coverage is not achieved, postemergent weed control will be poor. Optimum broad-spectrum control of annual and perennial weeds requires a tank-mix with a broad-spectrum burn-down herbicide such as glyphosate, glufosinate, or paraquat.

If adequate moisture (1/2" to 1" of rainfall or irrigation) is not received within 7 to 10 days and also if dry conditions persist throughout the growing season, erratic preemergent weed control may result. Additional moisture is needed throughout the growing season to maintain herbicide activity and prevent weed escapes.

When used as directed, SPARTAN CHARGE HERBICIDE will provide preemergent control of the following weeds (refer to POST-EMERGENT WEEDS CONTROLLED SECTION for postemergent weeds controlled):

Amaranth, Palmer	Pigweed, red root
Filaree, redstem	Pigweed, smooth
Kochia (ALS and Triazine Resistant)	Sida, prickly
Lambsquarters, common	Thistle, Russian
Morningglory, ivyleaf	Waterhemp, common
Morningglory, tall	Waterhemp, tall
Nightshade, Eastern black	

Restrictions

Do not apply SPARTAN CHARGE Herbicide after crop emergence, or if the seedling is close to the soil surface as undesirable crop response may occur.

Do not apply more than 10.2 fluid ounces per acre of SPARTAN CHARGE HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

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

Do not apply to frozen soils or existing snow cover to prevent SPARTAN CHARGE HERBICIDE runoff from rain or snowmelt that may occur following application.

TOBACCO (Burley, Flue Cured, and Dark)

Table 15

SPARTAN CHARGE HERBICIDE Use Rate Table (Tobacco) Pre-Plant and Pre-Plant Incorporated Applications			
Broadcast Rate	Fl oz (lb ai) SPARTAN CHARGE HERBICIDE per acre		
	Soil Texture		
% Organic Matter	Coarse	Medium	Fine
<1.5	5.7(0.16) - 7.6(0.21)	7.6(0.21) - 10.2(0.28)	10.2(0.28)
1.5-3.0	7.6(0.21) - 10.2(0.28)	10.2(0.28) - 12.8(0.35)	12.8(0.35)
>3.0	10.2(0.28) - 12.8(0.35)	12.8(0.35) - 15.2(0.41)	15.2(0.41)
Refer to the previous information on soil types under the COARSE, MEDIUM, and FINE categories			
Use higher rates for soils of pH less than 7.0 and lower rates for pH greater than 7.0 within the rate range.			

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

Broadcast apply the appropriate SPARTAN CHARGE HERBICIDE rate from Table 15 above, in a minimum of 10 gallons per acre of water, to the soil prior to transplanting.

Non-Bedded (Fields where raised beds are NOT formed prior to transplanting) Perform all accepted cultural practices for land preparation, fertilizer/fungicide incorporation, etc. prior to the application of SPARTAN CHARGE HERBICIDE. Once the field has been prepared for planting, SPARTAN CHARGE HERBICIDE may be surface applied or lightly preplant incorporated from 14 days to 12 hours prior to transplanting.

If SPARTAN CHARGE HERBICIDE 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.

If timely cultivations are not performed following a pre-transplant surface application, reduced/unacceptable weed control may occur in the drill.

Bedded (Fields where raised beds ARE formed PRIOR to transplanting) Apply SPARTAN CHARGE HERBICIDE to formed beds as a surface application from 14 days to 12 hours prior to transplanting. If it is customary to drag/knock down beds prior to transplanting, this procedure must be performed prior to the SPARTAN CHARGE HERBICIDE application.

When incorporating prior to bedding, SPARTAN CHARGE HERBICIDE must be thoroughly and uniformly incorporated to a depth no greater than 2 inches to avoid concentrating SPARTAN CHARGE HERBICIDE 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 CHARGE HERBICIDE, or any other herbicide containing sulfentrazone. DO NOT re-bed. Re-transplant into previously formed, treated beds.

For broad spectrum and optimum grass weed control a grass herbicide application will be required.

Weeds Controlled

When Applied according to directions, SPARTAN CHARGE HERBICIDE will provide control of:

Amaranthus, livid	Pigweed, redroot
Filaree, redstem	Pigweed, smooth
Galinsoga, hairy	Sida, prickly
Lambsquarters, common	Signalgrass, broadleaf
Morningglory, ivyleaf	Smartweed, Pennsylvania
Morningglory, tall	

Precautions

Poor agronomic practices, unfavorable pH soils, diseases, cold weather, excessive moisture, drought or other conditions unfavorable to normal plant growth may adversely effect the growth of tobacco transplants. Weakened transplants may be more susceptible to herbicide response and diseases, particularly under poor drainage or compacted soil conditions or when the soil has been saturated for long periods of time. Contact your State Agricultural 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 shallowly, or if heavy rainfall occurs immediately following transplanting. Splashing of treated soil onto tobacco leaves may cause some localized and inconsequential necrosis. Use sound transplanting practices that insure treated soil will not wash or crust over tobacco plants.

These Crop Specific Use directions are based upon the interactive effects of SPARTAN CHARGE HERBICIDE (sulfentrazone and carfentrazone-ethyl) and the primary soil and environmental factors, which affect its activity on various weed species and tolerance among crops. The user is required to observe the instructions and guidance previously presented under Application Instructions, Maximum Allowable Spartan Charge Herbicide Use per Acre per 12 Month Period, Crop Rotational Intervals, Replanting Instructions, Weeds Controlled and any other sec-

tion of this label pertinent to the anticipated crop use. It is important to note that not all varieties or cultivars of a given crop species have been evaluated under treatment with SPARTAN CHARGE HERBICIDE. Consult university or extension weed management specialists for additional information on specific local varieties or cultivars and any other pertinent information on SPARTAN CHARGE HERBICIDE under specific local conditions.

Restrictions

Do not use on Shade Grown Tobacco

Do not apply SPARTAN CHARGE HERBICIDE to soils classified as sands containing less than 1% organic matter.

Do not use SPARTAN CHARGE HERBICIDE in tobacco seeding beds or greenhouses.

Do not apply SPARTAN CHARGE HERBICIDE post-transplant as unacceptable injury may occur.

Do not perform tillage practices that concentrate SPARTAN CHARGE HERBICIDE into the bed or crop injury may occur.

Do not apply more than 15.2 fluid ounces (0.41 lbs active) per acre of SPARTAN CHARGE HERBICIDE per acre per twelve-month period. The twelve-month period is considered to begin upon the initial SPARTAN CHARGE HERBICIDE application.

Do not incorporate greater than 2 inches deep.

LABEL TRACKING INFORMATION

Label Code: 12-07-17

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