



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
WASHINGTON, DC 20460

OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION

May 17, 2017

Nicole O'Loughlin
Regulatory Consultant
Volantis, LLC
c/o Pyxis Regulatory Consulting Inc.
4110 136th St. Ct. NW
Gig Harbor, WA 98332

Subject: Notification per PRN 98-10 – New Primary Brand Name and minor label updates
Product Name: Aquesta 4 SC
EPA Registration Number: 92647-6
Application Date: 3/1/2017
Decision Number: 526933

Dear Ms. O'Loughlin:

The Agency is in receipt of your Application for Pesticide Notification under Pesticide Registration Notice (PRN) 98-10 for the above referenced product. The Registration Division (RD) has conducted a review of this request for its applicability under PRN 98-10 and finds that the action requested falls within the scope of PRN 98-10.

The label submitted with the application has been stamped "Notification" and will be placed in our records.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

If you have any questions, you may contact Sarah Meadows at 703-347-0505 or via email at meadows.sarah@epa.gov.

Sincerely,

A handwritten signature in black ink, appearing to read "Sal Baris". The signature is fluid and cursive. To the right of the signature, the word "FOR" is written in a small, bold, sans-serif font.

Reuben Baris, Product Manager 25
Herbicide Branch
Registration Division (7505P)
Office of Pesticide Programs

Master Label includes:

Sublabel A: Agricultural Use
(including sod farms)

Sublabel B: Turf and Non-Crop Use

GROUP

14

HERBICIDE

~~S308.1 SULFENTRAZONE 4~~
Herbicide Aquesta 4 SC

Manufactured for:

~~SynTolus, LLC~~ Volantis, LLC
~~1204 Village Market Place, #273~~ 609 W Railroad Ave.
~~Morrisville, NC 27560~~ Toluca, IL 61369

EPA Reg. No. ~~91234-9~~ 92647-6

EPA Est. No. _____

NOTIFICATION

92647-6

The applicant has certified that no changes, other than those reported to the Agency have been made to the labeling. The Agency acknowledges this notification by letter dated:

5/17/2017

Sublabel A: Agricultural Use (including sod farms)

GROUP	14	HERBICIDE
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~~S306.1 Sulfentrazone 4~~
~~Herbicide~~Aquesta 4 SC

ACTIVE INGREDIENT:

Sulfentrazone* 39.6%

OTHER INGREDIENTS: 60.4%

TOTAL: 100.0%

*Equivalent to 4 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN
CAUTION

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF INHALED:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies call 1-844-685-9173.	
NOTE TO PHYSICIAN: Sulfentrazone is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.	

For Chemical Emergency

Spill, Leak, Fire, Exposure, or Accident

Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

Manufactured for:

SynTelus, LLC—Volantis, LLC

1204 Village Market Place, #273609 W Railroad Ave.

Morrisville, NC 27560 Toluca, IL 61369

EPA Reg. No. 91234-992647-6

EPA Est. No. _____

NET CONTENTS: ____ GALS

Contains Sulfentrazone, the active ingredient used in Spartan® 4 F Herbicide.

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)

Some materials that are chemical resistant to this product are made of any waterproof material.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not re-use them.

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

Groundwater advisory:

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

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

Surface water advisory:

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, and 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 over-lying tile drainage systems that drain to surface waters.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Applicators must not exceed labeled rates of this product. Refer to specific crop directions for use for maximum use rates. Calculate the 12 month period for the purpose of maximum use rates from when ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC is first applied.

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. These ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ requirements 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.

Personal Protective Equipment (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 made of any waterproof material
- shoes plus socks

HERBICIDE RESISTANCE

~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ must be applied at the labeled rates and in accordance with label directions. Do not apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ at rates less than those listed in this label. Observe target areas prior to treatment and apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ when weeds are smaller.

If levels of control provided by applications of this product is reduced, and cannot be accounted for by factors such as misapplication, abnormal levels of target species or extremes of weather, it may be the case that target species have developed a strain resistant to applications of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~. If resistance develops, ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ may not provide sufficient control of target species. Where you suspect target species are developing resistance, contact State/local agricultural advisors.

Certain species may develop resistance to this product/other herbicides where they are used repeatedly. Application of pesticide products therefore should be carried out in consultation with local/State agricultural advisors so that local resistance management strategies can be implemented.

In order to limit the possibility of resistance developing, apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ in rotation with products that have a different mode of action and other classes of chemistry.

PRODUCT INFORMATION

~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ is a soil-applied selective herbicide. It will control listed grasses, sedges and broadleaf weeds. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ is a flowable product that contains 4 pounds of active ingredient (sulfentrazone) per gallon.

The active ingredient sulfentrazone inhibits an enzyme required by plants in order to produce chlorophyll. Inhibiting this enzyme leads to the release of singlet oxygen (O) which then disrupts cellular membranes, resulting in cellular leakage and cellular death ultimately resulting in plant death.

~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ has a selective mode of action because sulfentrazone has a greater affinity for the PRO IX enzyme in listed weed species as opposed to listed crops.

~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC must be prepared and used in such a way so as to prevent the following:

- spills
- improper disposal of spray mixtures, rinsate or any excess pesticide
- back siphoning in wells

Setback

The following activities must not be carried out within 50 feet of any well (including drainage and abandoned wells) unless the activity is carried out on an impervious pad that has been built to withstand the heaviest possible weight that will be moved across the pad or placed upon it:

- Loading
- Mixing
- Washing/rinsing ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC from application equipment

The impervious pad must be made to contain any leaks or spills, as well as any rinsate/washwaters and rain that may fall upon it. An impervious pad that does not have a roof must have enough capacity to contain a minimum of 110% of the volume of the largest container that will be placed on the pad. Those pads that are covered by a roof must have enough capacity to contain a minimum of 100% of the volume of the largest container that will be placed on the pad. The roof must be big enough to completely exclude contact with the pad from rainfall.

The above containment volume minimum must be maintained. The minimum capacity volumes do not apply to the following:

- Vehicles delivering pesticide product to the load/mix area

Applicators must ensure that they are aware of any State requirements for containment and set back from wells.

The impervious pad must be self-contained so that surface water cannot flow over or from one pad. They must also be sloped to allow for material removal.

Do not load or mix ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC within 50 feet of any sinkholes, reservoirs, impounded or natural lakes, wells (including drainage and abandoned wells) or intermittent/perennial rivers and streams. This restriction does not apply where there are properly diked loading/mixing areas or impervious pads. The restriction also does not apply where abandoned wells are properly plugged or capped.

APPLICATION INSTRUCTIONS

Apply this product in one of the following ways:

- as a surface application, pre-emergence treatment (i.e. before crop and/or weed emergence)
- as a incorporated treatment prior to planting
- Post-plant application
- Over-the-top
- layby

For further detail, refer to the Crop Specific Use Directions below.

When ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC is used as an incorporated treatment, the product must be incorporated following a uniform surface application to a depth of 2 inches maximum. If it is incorporated to a greater depth, reduced control of target species may result. Applicators must ensure that there is no overlap between areas that have been treated with ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC due to soil movement. Such an overlap could cause an adverse crop response.

When ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC is soil applied or applied as a post-plant treatment, the herbicidal action of the product must be activated by moisture. The amount of moisture required depends upon a number of factors including:

- soil type
- organic matter content
- tilth
- existing soil moisture at the time of treatment

For an effective application of ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC, 0.5 to 1 inch of irrigation or rainfall is required within 7 to 10 days following treatment. If that level of moisture is not received, shallow incorporation must be undertaken in order to obtain sufficient control of target species. Activating moisture can be delayed for 10-14 days, and sometimes longer, depending on the factors listed above. If activating moisture is delayed, however, control of listed species may be reduced, due to the growth of weeds during the delay.

When ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC has been activated, it will provide control of listed weed species. The level of control will depend on the size and type of weed species when ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC is activated. The control of listed germinating weed species will be reduced when rain or irrigation follows a period of dry weather.

Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC prior to the germination of crop seeds in order to avoid damage to emerging seedlings. Crop damage may occur where treatment is delayed if seeds are germinating, or are close to the soil surface.

If ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC is applied by surface application and activation has not been triggered by rainfall, or irrigation' (1/2" to 1" moisture) within 10 days" of treatment, make a shallow incorporation"(less than 2") of the product so that germinating weed species can be controlled. Soil incorporation will also facilitate product activation with existing soil moisture.

Where there is prolonged periods when rainfall/irrigation is not available, alternative weed control methods should be considered.

Follow Crop Specific Use Directions exactly and with care, particularly for post plant treatments.

Lay-by/Over-the-top applications provide control of listed species through contact and residual control (depending on weed species).

Combining this product with a surfactant may improve control of listed species, but may also increase the risk of crop injury.

Applicators must be aware that certain crops will react differently to treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC according to the following factors:

- use rate
- specific crop species sensitivity
- soil composition

Once a treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC has been made, seedlings and germinating seeds absorb sulfentrazone from the soil solution. The amount of available active ingredient contained in the soil solution, is determined by the following factors:

- soil type
- soil pH
- soil organic matter content

Sulfentrazone is adsorbed by the organic matter and clay parts of soils. This absorption reduces the amount of active ingredient available for weed uptake. Clay content in soil tends to increase as the soil

gets finer. Crop Use Directions are indicated per soil types. Refer to the following chart to determine the category of a particular soil type:

Coarse Soil	Sand
	Loamy Sand
	Sandy Loam
Medium Soil	Sandy clay loam
	Sandy Clay
	Loam
	Silt Loam
	Silt
Fine Soil	Silty clay loam
	Silty clay
	Clay loam
	Clay

The organic matter soil will vary widely within soil classifications. In order to assess organic matter soil content, a detailed analysis will be required.

The amount of sulfentrazone available for uptake by weed species will increase as the pH of the soil increases. The pH of the soil must be accurately assessed using representative soil samples. In addition, irrigation with water with a high pH (i.e. alkaline water) following treatment, will increase the amount of available sulfentrazone for uptake by target species. However, if irrigation water pH exceeds 7.5, crop damage may result. The likelihood of an adverse response by crops will decrease as the growth stage of crops advances.

The use rate of this product will be determined by the following factors:

- Timing of treatment
- The amount of activating moisture (rainfall/irrigation)
- Soil parameters
- Soil pH

The Crop Specific Use Directions (below) for each crop, are based on:

- soil type
- soil organic matter
- soil pH interactions

The performance of ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC and crop tolerance is based on strictly following the Crop Specific Use Directions.

Application by Air

- Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC using appropriate nozzles that will allow for optimal coverage, will minimize drift and will keep fine spray droplets to a minimum.
- Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC in an appropriate volume for sufficient coverage. Use minimum spray volume of 5 gallons per acre.
- Do not apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC when wind speed is likely to cause drift outside the target area.

Application by Ground

- Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC using a boom and nozzle sprayer with the appropriate spray tips, screens and nozzles. Application equipment must be calibrated for optimal coverage and spray distribution at the appropriate pressure.
- Use spray nozzles that will minimize drift by keeping fine spray droplets to a minimum.
- Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC in a minimum spray volume of 10 gallons per acre. Avoid overlapping applications which may result in excessive treatment and

adverse crop response. When starting, turning or stopping, slower ground speed of application equipment may also lead to excessive treatment

- Do not apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC when wind speed is likely to cause drift outside the target area.

CALIFORNIA ONLY SPECIFIC RESTRICTIONS ON APPLICATIONS OF ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC

Runoff Ground Water Protection Areas. Do not use in areas identified by the California Department of Pesticide Regulation as runoff ground water protection areas* unless one of the following management practices can be met:

- a) Soil disturbance. Within seven days before this product is applied, the soil to be treated shall be disturbed by using a disc, narrow, rotary tiller, or other mechanical method. This subsection does not apply to the area to be treated that is immediately adjacent to the crop row and that does not exceed 33 percent of the distance between crop row or in citrus, to the band from the tree row to the dripline; or
- b) Incorporation of the pesticide. Within 48 hours after the day this product is applied, the pesticide shall be incorporated on at least 90 percent of the area treated; using a disc, harrow, rotary tiller, or other mechanical method, or by sprinkler or low flow irrigation, including chemigation where allowed by the label, using a minimum of ¼ inch of irrigation water and a maximum of one inch as described under Application Instructions, at application rates that do not cause surface water runoff from the treated property or to wells on the treated property; or
- c) Band treatment: This product is applied as band treatment immediately adjacent to the crop row so that not more than 33 percent of the distance between rows is treated, or, in citrus, not more than the area from the tree row to the dripline is treated; or
- d) Timing of application. This product is applied between April 1 and July 31; or
- e) Retention of runoff on field. For six months following the application, the field shall be designed, by berms, levees, or nondraining circulation systems, to retain all irrigation runoff and all precipitation on, and drainage through, the field. The retention area on the field shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours); or
- f) Retention of runoff in a holding area off the field. For six months following application, all runoff shall be channeled to a holding area off the application site, under the control of the property owner, that is designed to retain all irrigation runoff and all precipitation on, and drainage through, the treated field and all other areas draining onto that holding area. The holding area shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours); or
- g) Runoff onto a fallow field. For six months following application, runoff shall be managed so that it runs off onto an adjacent unenclosed fallow field at least 300 feet long that is not irrigated for six months after application with the exception of the addition of adequate moisture that is required for herbicidal activation following application as described under Application Instructions, with full consideration of any plant back restrictions.

Leaching Ground Water Protection Areas. Do not use in areas designated by the California Department of Pesticide Regulation as leaching ground water protection areas* unless either (a) the user does not apply any irrigation water for six months following the application of this product, or (b) the user applies this product to the planting bed or the berm above the level of irrigation water in the furrow or basin and the water level shall remain at or below that level for six months following application of the pesticide with the exception of the addition of adequate moisture that is required for herbicidal activation following application as described under Application Instructions, or (c) irrigation is managed so that the

ratio of the amount of irrigation water applied divided by the net irrigation requirement is 1.25 or less for six months following application of this product.

*Consult with your County Agricultural Commissioner to determine whether the application will be within an area designated by the California Department of Pesticide Regulation as either a Runoff Ground Water Protection Area or a Leaching Ground Water Protection Area. Details regarding the locations of these Areas are also available via the internet at <http://www.cdpr.ca.gov/docs/emon/ehap.htm>

Chemigation Application

~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC may be applied through sprinkler irrigation systems including center pivot, lateral move, end tow, solid set, or hand move irrigation systems. Do not apply this product through any other type of irrigation system. Do not connect any irrigation system (including greenhouse systems) used for pesticide application to a public water system. Crop injury, lack of effectiveness or illegal residues on or in the crop can result from non-uniform distribution of treated water. If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers, or other experts. A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

The system must contain a functional check valve, vacuum relief valve, and low-pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must also contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation systems either automatically or manually shut down. The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops. The irrigation line or water pump must include a functional pressure switch, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC should be metered into the irrigation system continuously for the duration of the water application. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC should be diluted in sufficient volume to insure accurate application over the area to be treated. Use the appropriate amount of water to carry the product to the soil surface. Continuous agitation is required to maintain product suspension in the solution tank. A jar test should be conducted to ensure that phase separation would not occur during dilution and application. Failure to achieve a uniform dilution throughout the time of application may result in undesirable residues or less than desirable weed control. Flush the lines at the completion of the application and then turn the water off promptly.

When using water from public water systems; DO NOT APPLY ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC THROUGH ANY IRRIGATION SYSTEM PHYSICALLY CONNECTED TO A PUBLIC WATER SYSTEM. Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days of the year. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC may be applied through irrigation systems, which may be supplied by a public water system only if water from the water system is discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and to top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe. Before beginning chemigation, always make sure that the air gap exists and that there is no blockage of the overflow of the reservoir tank.

Crop response to treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC will depend on the following factors:

- application rate and timing
- volume of water applied and pH
- sensitivity of crop type to treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC
- growth stage of the crop when irrigated

The amount of sulfentrazone available for uptake by weed species will increase as the pH of the soil increases. The pH of the soil must be accurately assessed using representative soil samples. In addition, irrigation with water with a high pH (i.e. alkaline water) following treatment, will increase the amount of available sulfentrazone for uptake by target species. However, if irrigation water pH exceeds 7.5, crop damage may result. The likelihood of an adverse response by crops will decrease as the growth stage of crops advances.

Application in Combination with Dry Fertilizers

- ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC may be impregnated on and applied in conjunction with a dry bulk fertilizer.
- Only apply combinations of this product and dry fertilizer with ground equipment.
- Do not apply via aerial application.
- Applicators using dry fertilizer must follow state regulations on the preparation of the ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC/fertilizer combination, including mixture preparation, storage, transportation, selling and treatment.

Directions for Dry Fertilizer Impregnation:

1. Use the following method for impregnation:
 1. Ensure that spray nozzles are calibrated and positioned for uniform ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC coverage of the dry fertilizer during the mixture process.
 2. Make a slurry with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC and water in a clean container.
 3. Once made, add the ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC/water slurry to the impregnation spray tank.
 4. Finish the solution by adding water as required.
2. For impregnation and application of ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC and dry fertilizer, use a dry bulk fertilizer blender such as a closed rotary-drum mixer that is fitted with appropriate spray application equipment.
3. See the CLEANING APPLICATION EQUIPMENT section (below) prior to cleaning equipment used for impregnation, transportation, loading and application of the ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC/dry fertilizer combination.
4. DO NOT attempt to impregnate coated ammonium nitrate or limestone with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC as neither can absorb the herbicide.

Application instructions for ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC impregnated dry fertilizers:

- Dry fertilizer impregnated with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC must be applied using a dry fertilizer spreader. The application equipment must be correctly calibrated for sufficient and uniform coverage of the soil surface. If treatment is not uniform, some areas may go untreated which may cause reduced control of target species.
- Avoid overlapping applications, which may cause labeled use rates to be exceeded, and may cause adverse crop response.
- Apply the dry fertilizer/ ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC combination at a rate of at least 200 pounds of impregnated dry bulk fertilizer per acre in order to provide sufficient soil coverage.

- See the appropriate crop specific section of this label for the use rate of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Next, use the following equation to calculate the amount of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** that must be used to impregnate 2000 pounds (one ton) of dry bulk fertilizer

Fl. oz of S308.1 Sulfentrazone 4 Herbicide to be applied per ton of Dry Bulk Fertilizer	=	fl. oz. of S308.1 Sulfentrazone 4 Herbicide per acre per acre	X 2000	+	lbs. dry bulk fertilizer applied per acre
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Example 1: If use rate of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** is 8 fl. oz. per acre, and 200 lbs fertilizer will be applied per acre:

$$(8) (2000 / 200) = 80 \text{ fl. oz. } \text{S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC} \text{ per ton of dry bulk fertilizer}$$

Example 2: If use rate of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** is 12 fl. oz. per acre and 400 lbs fertilizer will be applied per acre:

$$(12) (2000 / 400) = 60 \text{ fl. oz. } \text{S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC} \text{ per ton of dry bulk fertilizer}$$

Application in Combination with Liquid Fertilizers

- **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**, when applied in combination with a liquid fertilizer will provide control of listed weeds.
- Sufficient soil coverage is crucial for control of target species.
- Fertilizer solutions that may be used as a carrier for **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** may be concentrate formulations as blended or diluted in water.

Directions for Liquid Fertilizer Combination:

- The selected spray system must have the spray capacity to allow uniform application of the treatment solution, and must be capable of maintaining agitation in the spray tank throughout the mixture and application procedures.
- Some spray application systems might need separate pumps to apply the solution and maintain agitation at the same time.
- Prior to combining the liquid fertilizer and **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** in the application tank, carry out a compatibility test to ensure that the mixture is stable, homogenous and compatible [In a lidded glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. If mixture forms precipitates (flakes or sludge), gels, balls up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes].

Combine **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** and the carrier liquid fertilizer as follows:

1. Fill a clean spray tank ½ full of fertilizer solution.
2. Begin agitation of the fertilizer solution.
3. Use a clean container to create a slurry of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** and water (equal parts of both)*.
4. Add the slurry slowly to the spray tank, continuing agitation throughout.
5. Finish the slurry mix container and add rinsate solution to spray tank.
6. Finish filling spray tank to required level.
7. Maintain agitation throughout. The **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**/water slurry must be mixed thoroughly prior to application.

* For best mixing of the **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**/water slurry, add the slurry using induction systems on the sprayer fill plumbing system.

- Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Application instructions for S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC mixed with liquid fertilizers:

- The spray application solution must be applied immediately following preparation.
- Maintain agitation throughout mixture and application.
- Do not store spray solution in the spray tank for an extended period of time, or overnight.
- A combination of S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC and liquid fertilizer must not be premixed in nurse tanks.
- Applicators/sellers of liquid fertilizer must follow state regulations for liquid fertilizers, including those regarding preparation, blending, registration, transportation, selling, treatment and storage.

Band Treatment Applications

S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC can be applied as a banded treatment application. When calculating rates for band treatment, apply the equivalent volume per acre rate for broadcast treatment by using the following equation:

Band Rate or Volume	=	Broadcast Rate (fl. oz./acre) or Volume Per acre	X	Band width (in inches)	+	Row width (in inches)
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Mixing and Loading Instructions

- S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC may be applied on its own or in combination with other herbicides for a broader spectrum of weed control. Combinations with other products may not have been tested, therefore, carry out a compatibility test before mixing and applying [In a lidded glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. If mixture forms precipitates (flakes or sludge), gels, bails up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes].
- Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.
- Spray equipment must be clean and free of product residue prior to mixing an application solution of S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC. Refer to Cleaning Directions below and to the cleaning directions of the product(s) previously applied.
- Mix S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC using the following procedure:
 1. Fill a clean spray tank with ½ of Water required for treatment.
 2. Begin agitation.
 3. Use a clean container to create a slurry of S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC and water*.
 4. Add the slurry slowly to the spray tank, continuing agitation throughout.
 5. Rinse the slurry mix container and add rinsate solution to spray tank.
 6. Finish filling spray tank to required level.
 7. Maintain agitation throughout. The S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC/water slurry must be mixed thoroughly prior to application.
 - * For best mixing of the S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC/water slurry, add the slurry using induction systems on the sprayer fill plumbing system.
- The spray application solution must be applied immediately following mixture.
- Maintain agitation throughout mixture and application.
- Do not store spray solution in the spray tank for an extended period of time, or overnight.
- A tank mixture containing S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC must not be premixed in nurse tanks.

Cleaning Application Equipment

Adverse crop reaction may result if residues of this product are left in spray equipment following application. Spray equipment must be cleaned immediately after treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~, and before applications with other products.

- Use the following procedure:
 1. Drain the spray application equipment, including tank, hoses, spray boom and nozzles.
 2. Clean inside the spray tank with a high-pressure detergent, removing residues and sediment.
 3. Thoroughly rinse the spray tank.
 4. Flush the spray system out using water, including hoses, spray boom and spray nozzles.
 5. Combine 3 gallons of ammonia (with a minimum of 3% active ingredient) in 100 gallons of water. Make sufficient cleaning solution to operate the spray application equipment for a minimum of 15 minutes so that the system is thoroughly flushed.
 6. Remove spray tips, and all screens and filters and clean separately using the ammonia solution (step 5).
 7. Leave the cleaning solution or water in the nozzles, spray booms, hoses and spray tank overnight (or during storage) to ensure thorough cleaning.
 8. Drain the system completely prior to re-use. Use clean water to rinse/flush nozzles, spray booms, hoses and the spray tank. Remove spray tips, and all screens and filters and clean separately using the ammonia solution (step 5).
 9. Dispose of rinsate and excess cleaning solution in compliance with Federal, State, and local regulations and guidelines.
- Rinsate and cleaning solution must not be applied to sensitive crops.
- Spray application equipment must not be stored for any extended period while ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ application solution remains in the spray lines, nozzles, strainers, or boom plumbing.
- When application equipment has been idle or in storage, flush the nozzles and spray boom with clean water prior to use for application of product.
- If small amounts of this product remain in equipment after cleaning, ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ may be released during later applications, which may cause an adverse reaction from certain crops/other vegetation. The applicator is solely responsible for any damage caused by equipment that is not properly cleaned.
- Equipment must not be flushed or drained near desirable plants/trees.
- Ensure that bodies of water are not contaminated with application solution, rinsate or cleaning solution, including water that may be used for other crops, i.e. irrigation water.

SPRAY DRIFT REDUCTION ADVISORY

To avoid drift, do not apply when wind speeds exceed 10 mph. Do not exceed spray pressures of 40 psi unless specified by the manufacturer of drift reducing spray tips and nozzles.

Spray Drift Management

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 aerial applications. These requirements do not apply to forestry applications, public health uses or to applications of dry materials.

1. The distance of the outermost nozzles on the boom must not exceed 75% the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
3. Observe the regulations of the State where applications are made.
4. Applicators must observe and abide by the requirements of the Aerial Drift Reduction Advisory.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage for pesticide performance. Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions. (See information on Wind, Temperature and Humidity, and Temperature Inversions in subsequent sections).

Controlling Spray Droplet Size

Volume - Use high flow rate nozzles to apply the greatest practical spray volume. Nozzles with higher rated flow generally produce larger droplets. .

Pressure - When higher flow rates are needed, use higher flow rate nozzles rather than increasing spray pressure.

Do not exceed the nozzle manufacturer's specified pressures.

Lower pressure produces larger droplets in many types of nozzles.

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

Nozzle Orientation - For aerial application, the recommended practice is to orient nozzles so that the spray is released parallel to the airstream. This orientation usually produces larger droplets as compared to other nozzle orientations. Significant nozzle deflection from horizontal will reduce droplet size and increase drift potential.

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 for both ground and aerial applications. Solid stream nozzles oriented straight back usually produce the largest droplets and the lowest drift potential in aerial applications.

Boom Length - For some aerial use patterns, reducing the effective boom length to less than 75% of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height - To minimize spray drift, make applications at a height < 10 feet above the top of the target plant canopy unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment - When aerial applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by the path of the aircraft upwind. Increase swath adjustment or offset distance when conditions favor increased drift potential (higher winds, smaller droplets, etc).

Wind - Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Do not make applications below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they may potentially affect spray drift.

Temperature and Humidity - When making applications in 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 make applications during a temperature inversion because 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 low speed and variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common during conditions of limited cloud cover and little to no wind. They often begin to form as the sun sets and may often continue into the morning. The presence

of a temperature inversion may be indicated by ground fog. However if fog is not present, the movement of smoke from a ground source or an aircraft smoke generator can also identify inversions. Smoke that remains in layers and moves laterally in a concentrated cloud (under low speed wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ Drift

If ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ solutions drift into non-target areas, contact with other plants/crops can cause adverse reaction. Initially, adverse crop/plant reaction may be in localized areas, depending on factors such as plant sensitivity to the application solution and spray solution droplet size. Lesions or spots caused by drift may or may not coalesce. The effects of drift will not normally cause lasting effects on plant growth, but may adversely affect the value of fruit or foliage where value is affected by appearance. Where plants are sensitive to ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ and drift is significant, defoliation may result.

Avoid drift of this product/solutions containing this product to non-target areas by taking adequate notice of the prevailing environmental conditions. Use appropriate and accurately calibrated application equipment and utilize treatment procedures that will minimize the risk of drift.

Misapplication of this product where label directions are not followed may result in drift. The applicator/user of this product is solely responsible for any misapplication of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~.

REPLANTING AND ROTATIONAL CROPS

- During replanting, keep soil tillage to a minimum so that the herbicide barrier is preserved, thereby maximizing weed control.
- In the event that the planting of crops listed in label directions does not produce a stand, only crops specified in this label or the tank mix partner may be planted. Where there is a tank mixture, the most restrictive label directions must be followed.
- The planted area must not be retreated with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ or any other-product containing sulfentrazone.
- Do not plant crops in previously treated areas unless in full compliance with the Rotational Restrictions (below)

Crop Rotation: Refer to the table below for the minimum interval from the time ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ was last applied until treated areas can be replanted with listed crops.

Crop	Minimum Rotational Interval
Barley Rye Triticale Wheat	4 months
Corn, Field Rice Sorghum ¹	10 months
Alfalfa Cereal Grains (Buckwheat, Oats, Pearl Millet, Proso Millet, Teosinte, Wild Rice) Sweet Potatoes	12 months
Corn, Pop	

Corn, Sweet Cotton	18 months
Canola	24 months
Asparagus Berries Brassica, head and stem (Broccoli and Cabbage) Brassica, leafy greens Citrus Cowpea, succulent (TN Only) Dry Shell Peas and Beans Flax Fruiting Vegetables (except cucurbits), Okra Grapes Horseradish Lima beans, succulent (TN Only) Melons Mint Peanuts Potatoes Rhubarb Soybeans Strawberry Succulent peas Sugarcane Sunflower subgroup 20B Tobacco Tree nuts Turf Turnips Wheat, spring (Pacific Northwest states ID, OR, WA only)	Crops can be planted at any point following the application of S308.1 <u>SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC</u>

¹ 18 month minimum rotational interval for sorghum where use rates are greater than 8 oz. of ~~S308.1~~
SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC per acre

- Certain crops have a rotational interval of more than 12 months because of sensitivity and the risk of crop injury. Carry out a representative bioassay of the target area on the rotational crop in order to assess the crop's sensitivity to applications of this product.
- For all crops not listed in the table above, there must be a minimum rotational interval of 12 months.
- When this product is tank mixed with another product(s), read and follow the directions of all tanks mix partners. The most restrictive directions must apply, including directions for recropping.

LISTED WEED SPECIES

When applied in accordance with these label directions (alone or in a tank mixture), ~~S308.1~~
SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC will provide control of the following weed species (refer to crop specific section for more details):

Amaranth, livid (*Amaranthus lividus*)
Amaranth, Palmer (*Amaranthus palmeri*)
Amaranth, Powell (*Amaranthus Powell II*)
Amaranth, spiny (*Amaranthus spinosus*)
Amaranth, spleen (*Amaranthus dubius*)
Anoda, spurred (*Anoda cristata*)
Bedstraw, catchweed (*Galium aparine*)
Carpetweed (*Mollugo verticillata*)
Chickweed, common (*Stellaria media*)

Copperleaf, hophornbeam (*Acalypha ostryeafolia*)
Copperleaf, Virginia (*Acalypha virginica*)
Crabgrass, large (*Digitaria sanguinalis*)
Crabgrass, smooth (*Digitaria ischaemum*)
Crabgrass, Southern (*Digitaria ciliaris*)
Croton, tropic (*Croton glandulosus*)
Crownbeard, golden (*Verbesina encelioides*)
Cupgrass, wooly (*Erichloa villosa*)
Cyperus, hedgehog (*Cyperus compressus*)

Daisy, American (*Eclipta alba*)
 Devilsclaw (*Proboscidea Louisiana*)
 Dock, curly (*Rumex crispus*)
 Eclipta (*Eclipta prostrata*)
 Filaree, redstem (*Erodium cicutarium*)
 Flixweed (*Descurainia sophia*)
 Galinsoga, hairy (*Galinsoga ciliate*)
 Goosegrass (*Eleusine indica*)
 Groundcherry, clammy (seedling) (*Physalis heterophylla*)
 Groundcherry, cutleaf (*Physalis angulate*)
 Jimsonweed (*Datura stramonium*)
 Kochia (ALS and Triazine Resistant) (*Kochia scoparia*)
 Ladysthumb (*Polygonum persicaria*)
 Lambsquarters, common (*Chenopodium album*)
 Lettuce, miners (*Montia perfoliata*)
 Mallow, common (*Malva neglecta wall r.*)
 Mayweed, Chamomile (*Anthemis cotula l.*)
 Milkweed, honeyvine (*Ampelamus albiduis*)
 Morningglory, entireleaf (*Ipomoea hederacea integriscula*)
 Morningglory, ivyleaf (*Ipomoea hederacea hederacea*)
 Morningglory, palmleaf (*Ipomoea wrightii*)
 Morningglory, purple (*Ipomoea turbinate*)
 Morningglory, red (*Ipomoea, coccinea L*)
 Morningglory, scarlet (*Ipomoea coccinea*)
 Morningglory, smallflower (*Jacquemontia tamnifolia*)
 Morningglory, tall (*Ipomoea purpurea*)
 Mustard, tumble (*Sisymbrium altissimum*)
 Nightshade, black (*Solanum nigrum*)
 Nightshade, Eastern black (*Solanum ptycanthum*)

Nutsedge, purple (*Cyperus rotundus*)
 Nutsedge, yellow (*Cyperus esculentus*)
 Orchardgrass (*Dactylis glomerata*)
 Panicum, fall (*Panicum dichotomiflorum*)
 Pigweed, redroot (*Amaranthus retroflexus*)
 Pigweed, smooth (*Amaranthus hybridus*)
 Plantain, blackseed (*Plantago rugelii decne*)
 Plantain, narrow-leaved (*Plantago lanceolata*)
 Poorjoe (*Diodia feres*)
 Porophyllum (*Porophyllum rederale*)
 Poinsettia, wild (*Euphorbia heterophylla*)
 Purslane, common (*Portulaca oleracea*)
 Redmaids (*Calandrinia ciliate*)
 Redweed (*Melochia corchorifolia*)
 Sedge annual (*Carex spp.*)
 Senna, coffee (*Cassia occidentalis*)
 Sheperdspurse (*Capsella bursa-pastoris*)
 Sida, prickly (*Sida spinosa*)
 Sida, Southern (*Sida acuta*)
 Signalgrass, broadleaf (*Brachiaria platyphylla*)
 Smartweed, PA (seedling) (*Polygonum pennsylvanicum*)
 Smellmellon (*Cucumis melo*)
 Starbur, bristly (*Acanthospermum hispidum*)
 Stinkgrass (*Eragrostis cilianensis*)
 Toadflax, yellow (*Linaria vulgaris*)
 Tassleflower, red (*Emilio sonchifolia*)
 Thistle, Russian (*Salsola kali*)
 Waterhemp, common (*Amaranthus rudis*)
 Waterhemp, tall (*Amaranthus tuberculatos*)
 Waterprimrose, winged (*Ludwigia decurrens*)
 Witchgrass (*Panicum capillare*)

ASPARAGUS

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied preemergence in the spring, prior to weed and crop emergence. Apply to asparagus crowns that have been established for at least one year.

When applied as indicated on this label, the following weeds in asparagus will be controlled with **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**

Amaranth, Palmer	Galinsoga, hairy	Lambsquarters, common
Morningglory, ivyleaf	Nightshade, Eastern black	Nutsedge, yellow
Pigweed (redroot, smooth)		

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 4.5 - 6.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 6.0 - 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 8.0 - 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 6.0 - 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 8.0 - 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 10.1 - 12.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

Important

- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** with specific local varieties or cultivars of asparagus

<p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter</p> <p>Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p> <p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to the soil in the spring, before crop or weeds have emerged. Apply product in 10 to 40 gallons of finished spray per acre.</p> <p>Tank Mixes: For control of a broader spectrum of weeds or pests, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be mixed with other pesticides registered for use on asparagus. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions</p>	<ul style="list-style-type: none"> • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. • Pre-harvest interval (PHI) is 14 days • Do not make more than one S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC application in a 12 month period. The 12 month period starts at the point of first application. • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand')
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BRASSICA, HEAD AND STEM (Broccoli, Chinese broccoli, brussels sprouts, Chinese (napa) cabbage, Chinese mustard, cauliflower, cavalo broccoli, kohlrabi)								
<p>To control susceptible weeds, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied to head and stem brassica at the following times:</p> <p>In the fall (Preplant), before spring growing season</p> <p>In the spring (early preplant, preplant incorporated, preemergence)</p> <p>When applied as indicated on this label, the following weeds in head and stem brassica will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</p> <table> <tr> <td>Galinsoga, hairy</td><td>Lambsquarters, common</td><td>Pigweed, redroot</td></tr> <tr> <td></td><td>Waterhemp (common, tall)</td><td></td></tr> </table> <p>See Listed Weed Species section of this label for information on additional weeds.</p>			Galinsoga, hairy	Lambsquarters, common	Pigweed, redroot		Waterhemp (common, tall)	
Galinsoga, hairy	Lambsquarters, common	Pigweed, redroot						
	Waterhemp (common, tall)							
<p>Application Rates</p> <p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 - 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 - 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 	<p>Important</p> <ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use • Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of head and stem brassica • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application (including preplant fall application) 							

<p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p>	<ul style="list-style-type: none"> • Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches
<p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to stubble or to the soil surface, in the fall, or in the spring up to 72 hours before transplanting. Unless applying preplant incorporated, do not incorporate the product into the soil after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. If applying this product preplant incorporated in the spring, prior to transplantation, mix thoroughly or shallowly incorporate the S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil. Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches. Moisture (in the form of rain or snow) after application will activate and move the product into the soil. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p>	
<p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be split applied or mixed with burndown herbicides or residual soil herbicides labeled for use on head and stem brassica to control emerged weeds or broaden the herbicide control spectrum. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

BRASSICA, LEAFY GREENS (Broccoli raab, Chinese (bok choy) cabbage, collards, kale, mizuna, mustard greens, mustard spinach, rape greens)		
To control susceptible weeds, <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be applied to brassica, leafy greens at the following times: In the fall (Preplant), before spring growing season In the spring (early preplant, preplant incorporated, preemergence)		
When applied as indicated on this label, the following weeds in brassica, leafy greens will be controlled with <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> :		
Galinsoga, hairy	Lambsquarters, common	Pigweed, redroot
Waterhemp (common, tall)		
See Listed Weed Species section of this label for information on additional weeds		
Application Rates For Coarse Textured Soils <ul style="list-style-type: none">• Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• 1.5% to 3.0% OM, apply 3.0 - 6.0 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• Greater than 3.0% OM, apply 6.0 - 6.4 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre For Medium Textured Soils <ul style="list-style-type: none">• Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• 1.5% to 3.0% OM, apply 6.0 - 6.4 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• Greater than 3.0% OM, apply 6.0 - 6.4 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre For Fine Textured Soils		Important <ul style="list-style-type: none">• Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use• Consult with university or extension weed management specialists for information on using <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> with specific local varieties or cultivars of brassica, leafy greens• Do not apply more than 0.2 lbs

<ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply 6.0 - 6.4 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply 6.0 - 6.4 fl-oz-S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with lower soil pH rates (7.0 and lower) and lower S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with higher soil pH rates (greater than 7.0).</p> <p>Application Instructions: Apply amount of S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> indicated above to stubble or to the soil surface, in the fall, or in the spring up to 72 hours before transplanting. Unless applying preplant incorporated, do not incorporate the product into the soil after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. If applying this product preplant incorporated in the spring, prior to transplantation, mix thoroughly or shallowly incorporate the S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> into the soil. Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches. Moisture (in the form of rain or snow) after application will activate and move the product into the soil. To prevent runoff of S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> from snowmelt or rain, do not apply S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> to soils that are frozen or have an existing snow cover.</p> <p>Tank Mixes: S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be split-applied or mixed with burndown herbicides or residual soil herbicides labeled for use on brassica, leafy greens to control emerged weeds or broaden the herbicide control spectrum. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions..</p>	<p>sulfentrazone (6.4 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application (including preplant fall application)</p> <ul style="list-style-type: none"> • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches
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CABBAGE (Transplanted only)		
To control susceptible weeds, S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be applied cabbage (transplanted only) at the following times: In the fall (Preplant), before spring growing season In the spring (early preplant, preplant incorporated, preemergence)		
When applying early preplant to cabbage, the product may be applied only in CO, ID, MI, MN, MT, NE, ND, OR, SD, WA, WI, WY.		
When applied as indicated on this label, the following weeds in cabbage will be controlled with S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> :		
Galinsoga, hairy	Lambsquarters, common	Pigweed, redroot
Waterhemp (common, tall)		
See Listed Weed Species section of this label for information on additional weeds.		
Application Rates For Coarse Textured Soils <ul style="list-style-type: none">• Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• 1.5% to 3.0% OM, apply 3.0 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre• Greater than 3.0% OM, apply 6.0 – 9.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre For Medium Textured Soils		Important <ul style="list-style-type: none">• Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use• Consult with university or extension weed management

<ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0 – 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 – 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0 – 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 – 12.0 fl-oz S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter</p> <p>Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p> <p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to stubble or to the soil surface, in the fall, or in the spring from 60 days prior to planting or transplanting up to 72 hours after transplant. Unless applying preplant incorporated, do not incorporate the product into the soil after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur.</p> <p>If applying preemergence, applications before transplant can be broadcast or banded. Preemergence applications up to 72 hours after transplant should be a banded treatment in the row middles.</p> <p>If applying this product preplant incorporated in the spring, prior to transplantation, mix thoroughly or shallowly incorporate the S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil. Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>Moisture (in the form of rain or snow) after application will activate and move the product into the soil. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p> <p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be split-applied or mixed with burndown herbicides or residual soil herbicides labeled for use on cabbage to control emerged weeds or broaden the herbicide control spectrum.</p> <p>Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	<p>specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of brassica, leafy greens</p> <ul style="list-style-type: none"> • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application (including preplant fall application) • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches
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<p align="center">CORN (Field Corn, Seed Corn, Popcorn) For use only with Varieties tolerant to PRO Herbicides</p>	
<p>To control susceptible broadleaves, grasses and sedges in corn, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied to corn at the following times:</p> <p>In the fall (Preplant), before spring planting of corn</p> <p>In the spring (Early Preplant, Preplant Incorporated or Postemergence) prior to planting</p>	
<p>Application Rates</p> <p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Up to 3.0 % OM, apply 3.0 to 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 	<p>Important</p> <ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines,

<ul style="list-style-type: none"> Greater than 3.0% OM, apply 3.75 to 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.0 to 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 3.75 to 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 4.5 to 6.75 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.75 to 5.25 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 4.5 to 6.75 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 6.0 to 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p> <p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to stubble or to the soil surface, in the fall or in the spring 45 days prior to planting up to 3 days after planting (if seed furrow is closed completely and seedlings have not broken the soil surface), using a broadcast or banded soil application. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied in conventional, conservation, reduced or no tillage cropping systems. For application in the fall or up to 14 day prior to planting in the spring, use the mid to higher rate range for your soil type, because of the extended time period between application and planting.</p> <p>If applying this product preplant incorporated in the spring, mix thoroughly or shallowly incorporate the S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil using a field cultivator, disk harrower, field finisher or other correctly adjusted incorporation tool. Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>Moisture (in the form of rain or snow) should occur after application to move the product into the soil. If dry conditions persist, a shallow incorporation may be needed.</p> <p>For maximum weed control, disturb the soil surface as little as possible after application. Minimize soil disturbance when planting into soil that has been treated with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p> <p>More effective season-long control of existing weeds that are difficult to control or late emerging weeds can be obtained by applying S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC in a split or sequential application.</p> <p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be mixed with burndown herbicides or residual soil herbicides to control emerged weeds. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be mixed with insecticides including insecticides that contain the active ingredients (Mustang Max or Capture EC) to control cutworms, armyworms</p>	<p>replanting instructions, and any other information on this label prior to use</p> <ul style="list-style-type: none"> Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of brassica, leafy greens Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. If making a preplant fall application, the 12 month period starts at this point. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.
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or other insect pests. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

DRY SHELLED BEANS AND PEAS

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

To control susceptible weeds, ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC can be applied to dry shelled beans at the following times:

In the fall (Preplant), before spring growing season (only in CO, ID, KS, MI, MN, MT, NE, ND, OR, SD, WA, WI, WY).

In the spring (early preplant, preplant incorporated, preemergence)

When applied as indicated on this label, the following weeds in dry shelled beans and peas will be controlled with ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC:

Amaranth, Palmer
Kochia (ALS and Triazone resistant)
Morningglory (ivyleaf, tall)
Pigweed (red root, smooth)
Thistle, Russian

Filaree, redstem
Lambsquarters, common
Nightshade, Eastern black
Sida, prickly
Waterhemp (common, tall)

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- 1.5% to 3.0% OM, apply 3.0-4.5 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- Greater than 3.0% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- 1.5% to 3.0% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- Greater than 3.0% OM, apply 4.5 - 6.75 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre

For Fine Textured Soils

- Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- 1.5% to 3.0% OM, apply 4.5-6.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre
- Greater than 3.0% OM, apply 5.25 - 8.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).

Application Instructions: Apply amount of ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC indicated above to stubble or to the soil surface, in the fall, or in the spring from 60 days prior to planting up to 3 days after planting (if seed furrow is completely closed and if seedlings have not broken the soil furrow).

Important

- Reduce rate of ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC on coarse textured soil with organic matter less than 1.5% and pH of 7.8 or higher, or on highly eroded soils, or in areas of calcareous outcroppings to minimize adverse crop response.
- Planting less than 1 inch in depth or inadequate seed furrow closure or poor growing conditions (diseases, low temperature, soil compaction, excessive moisture) can also cause adverse crop response.
- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE-4 HERBICIDE~~AQUESTA 4 SC with specific local varieties or cultivars of dry beans and peas
- Do not apply more than 0.25 lbs sulfentrazone (8.0 fl. oz product) per acre per 12 month period. The 12 month period starts at the point

<p>When applying preplant fall applications, do not incorporate the product into the soil after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. Moisture (in the form of rain or snow) after application will activate and move the product into the soil. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover, product is incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>When applying in the spring early preplant greater than three weeks prior to planting, use the higher rate listed in Application Rates' for appropriate soil and organic matter type. Wait a minimum of 7 days after application to plant in coarse textured soils with less than 1.5% organic matter. Moisture (in the form of rain or snow) should occur after application to move the product into the soil. If dry conditions persist, a shallow incorporation may be needed. If applying this product preplant incorporated in the spring prior to planting reduced and conventional tillage dry beans and dry peas, mix thoroughly or shallowly incorporate the S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil.</p>	<p>of first application (including preplant fall application)</p> <ul style="list-style-type: none"> • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches • If seedlings are close to soil surface or crop has emerged, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC • To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have existing snow cover.
<p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be split-applied or mixed with burndown herbicides or soil-applied herbicides labeled for use on dry beans and peas to control emerged weeds or broaden the herbicide control spectrum. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

<p align="center">FALLOW OR POST HARVEST BURNDOWN Fall application (MN, ND, SD, MT, CO, NE, WY, ID, WA, OR, WI, MI) Or Spring Preemergence application</p>									
<p>To control or suppress susceptible weeds (including the weed list indicated below, and additional weeds indicated in the Weeds Controlled portion of this label, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied at the following times:</p> <p>In the Fall: after crop has been harvested In the spring before weeds have emerged.</p> <ul style="list-style-type: none"> • Fall applications can be made in the states of MN, ND, SD, MT, CO, NE, WY, ID, OR, WI or MI • Spring application can be made to existing fallow fields of asparagus, cabbage, corn, dry shell peas and beans, horseradish, limas, mint, peanuts, potatoes, soybeans, sugarcane, sunflowers, or tobacco <p>When applied as indicated on this label, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC will control the following weeds:</p> <table border="0"> <tr> <td>Filaree, redstem</td><td>Kochia (ALS and Triazine Resistant)</td></tr> <tr> <td>Lambsquarters, common</td><td>Morningglory (ivyleaf, tall)</td></tr> <tr> <td>Nightshade, Eastern Black</td><td>Pigweed (redroot, smooth)</td></tr> <tr> <td>Thistle, Russian</td><td>Waterhemp (common, tall)</td></tr> </table> <p>See Listed Weed Species section of this label for information on additional weeds.</p>		Filaree, redstem	Kochia (ALS and Triazine Resistant)	Lambsquarters, common	Morningglory (ivyleaf, tall)	Nightshade, Eastern Black	Pigweed (redroot, smooth)	Thistle, Russian	Waterhemp (common, tall)
Filaree, redstem	Kochia (ALS and Triazine Resistant)								
Lambsquarters, common	Morningglory (ivyleaf, tall)								
Nightshade, Eastern Black	Pigweed (redroot, smooth)								
Thistle, Russian	Waterhemp (common, tall)								
<p>Application Rates</p> <p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 to 3.75 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0 % OM, apply 3.75 to 5.25 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 4.5 to 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 to 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 	<p>Important</p> <ul style="list-style-type: none"> • Read and follow all precautions, instructions, replanting instructions, and any other information on this label prior to use • Follow rotational crop guidelines listed on this table when planting crops in the next season. • Consult with university or extension weed management 								

<ul style="list-style-type: none"> 1.5% to 3.0% OM, apply 3.75 to 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 4.5 to 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.75 to 5.25 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 4.5 to 6.75 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 5.25 to 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter</p> <p>Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p>	<p>specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties of given crop species.</p> <ul style="list-style-type: none"> Do not apply more than 0.25 lbs sulfentrazone (8.0 fl. oz. product) per 12 month period. If making a fall fallow application, the 12 month period starts at this point Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand') To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.
<p>Application Instructions:</p> <p>Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to stubble or soil surface in the fall, or as a fallow treatment in the spring. Do not incorporate S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil.</p> <p>Moisture (in the form of rain or snow) after application will move the product into the soil. For maximum weed control, disturb the soil surface as little as possible after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p> <p>If weed size is such that the weeds interfere with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC getting to soil surface, a separate burndown herbicide should be used prior to application of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC. Use higher listed application rates, or more than one application of a burndown herbicide, if necessary, to remove emerged weeds. If applying aerially, use higher listed spray volumes of burndown herbicide to control dense weeds or canopy</p>	
<p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be mixed with burndown herbicides or residual soil herbicides to control emerged weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

Note to Reviewer: Brackets [] denote optional language

FLAX							
To control susceptible weeds, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied preemergence to flax.							
<p>When applied as indicated on this label, the following weeds in flax will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC:</p> <table> <tr> <td>Copperleaf/hophornbeam</td><td>Kochia (ALS and Triazine Resistant)</td></tr> <tr> <td>Morningglory (entireleaf, ivyleaf, tall)</td><td>Nightshade, Eastern black</td></tr> <tr> <td>Pigweed (redroot, smooth)</td><td></td></tr> </table>		Copperleaf/hophornbeam	Kochia (ALS and Triazine Resistant)	Morningglory (entireleaf, ivyleaf, tall)	Nightshade, Eastern black	Pigweed (redroot, smooth)	
Copperleaf/hophornbeam	Kochia (ALS and Triazine Resistant)						
Morningglory (entireleaf, ivyleaf, tall)	Nightshade, Eastern black						
Pigweed (redroot, smooth)							
See Listed Weed Species section of this label for information on additional weeds.							
<p>Application Rates</p> <p>For Coarse Textured Soils</p>	<p>Important</p> <ul style="list-style-type: none"> Read and follow all precautions, 						

<ul style="list-style-type: none"> • Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply [3.0 - 6.0] [3.0 - 4.5] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply [6.0 - 9.0] [3.75 - 6.0] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply [6.0 - 9.0] [3.75 - 6.0] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply [6.0 - 12.0] [4.5 - 6.75] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply [3.0-6.0] [3.75 - 5.25] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, [6.0 - 9.0] [4.5 - 6.75] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply [6.0 - 12.0] [6.0 - 8.0] fl. oz. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with lower soil pH rates (7.0 and lower) and lower <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with higher soil pH rates (greater than 7.0).</p>	<p>instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use</p> <ul style="list-style-type: none"> • Consult with university or extension weed management specialists for information on using <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> with specific local varieties or cultivars of flax • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application • Wait a minimum of 7 days after application to plant in coarse textured soils with less than 1.5% organic matter. • Eliminate use or reduce rate of <u>S308.1 Sulfentrazone 4 HerbicideAquesta 4 SC</u> to 3.0 oz/acre (0.94 lbs active) on coarse textured soil with organic matter less than 1.5% and pH of 7.8 or higher, or on highly eroded soils, or in areas of calcareous outcroppings to minimize adverse crop response. • Planting less than 1 inch in depth or inadequate seed furrow closure or poor growing conditions (diseases, low temperature, soil compaction, excessive moisture) can also cause adverse crop response. • Reduced weed control can occur if crop is experiencing ex-tended periods of dry weather. • Product is not to be incorporated any deeper than 2 inches. • To prevent runoff of <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> from snowmelt or rain, do not apply <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> to soils that are frozen or have an existing snow cover. • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • If seedlings are close to soil surface or have emerged, do not apply <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> directly to crop
<p>Application Instructions: Apply amount of <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> indicated above as a preemergence treatment prior to planting up to just before seedling emergence. To avoid severe injury to flax, do not make application after seedlings have emerged.</p> <p>For enhanced control of broadleaf and grass weeds, <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> application can be followed with a postemergence flax herbicide.</p>	
<p>Tank Mixes: <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be applied alone or in combination with other herbicides labeled for use on flax to enhance control to broadleaf weeds and grasses. Tank mix <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> with burndown herbicides to control emerged weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

FRUITING VEGETABLES (except Cucurbits) and OKRA		
Eggplant; groundcherry (Physalis, spp.); pepino; pepper (including bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); okra; tomatillo; tomato		
To control susceptible weeds, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied preemergence to fruiting vegetables.		
When applied as indicated on this label, the following weeds in fruiting vegetables will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC :		
Lambsquarters, common	Morningglory, ivyleaf	Nutsedge, yellow
Pigweed, red root	Waterhemp (common, tall)	
See Listed Weed Species section of this label for information on additional weeds.		
Application Rates For Coarse Textured Soils <ul style="list-style-type: none">Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre1.5% to 3.0% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acreGreater than 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre For Medium Textured Soils <ul style="list-style-type: none">Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre1.5% to 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acreGreater than 3.0% OM, apply 6.0 - 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre For Fine Textured Soils <ul style="list-style-type: none">Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre1.5% to 3.0% OM, apply 6.0 - 9.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acreGreater than 3.0% OM, apply 6.0 - 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).		Important <ul style="list-style-type: none">Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to useConsult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of fruiting vegetablesDo not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first applicationDo not use on soils that contain less than 1% organic matter (soils classified as 'sand')
Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above as a preemergence treatment (broadcast or banded) to fruiting vegetables. Make applications before transplanting.		

HORSERADISH		
To control susceptible weeds, S308.1 SULFENTRAZONE 4 HERBICIDE <u>AQUESTA 4 SC</u> can be applied to horseradish at the following times:		
In the fall (preplant), before spring growing season		
In the spring (early preplant, preplant incorporated, preemergence)		
When applying early preplant to horseradish, the product may be applied only in CO, ID, MI, MN, MT, NE, ND, OR, SD, WA, WI, WY.		
When applied as indicated on this label, the following weeds in horseradish will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDE <u>AQUESTA 4 SC</u> :		
Lambsquarters, common	Morningglory, ivyleaf	Nutsedge, yellow
Pigweed, red root	Waterhemp (common, tall)	
See Listed Weed Species section of this label for information on additional weeds.		
Application Rates		Important

<p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 2.25 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 4.5 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 - 7.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium or Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0-8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p>	<ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use • Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of horseradish • Do not apply more than 0.25 lbs sulfentrazone (8.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application (including preplant fall application) • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches • If seedlings are close to soil surface or have emerged, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC directly to the crop (apply a banded treatment to row middles)
<p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above to stubble or to the soil surface. Unless applying preplant incorporated, do not incorporate the product into the soil after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur.</p> <p>If applying preplant in the spring, product can be applied 60 days prior to planting up to planting.</p> <p>If applying preemergence, applications before planting, and up to 5 days before crop emergence can be broadcast or banded. After crop emergence, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied to row middles as a banded treatment. If soil has more than 1% organic matter or is clay, higher rates of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC should be used.</p> <p>If applying this product preplant incorporated in the spring, prior to planting, mix thoroughly or shallowly incorporate the S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC into the soil. Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>Moisture (in the form of rain or snow) after application will activate and move the product into the soil. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p>	
<p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be split-applied or mixed with burndown herbicides, residual soil herbicides or other pesticides labeled for use on horseradish to control emerged weeds or broaden the pesticide control spectrum. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

LIMA BEANS, SUCCULENT (TENNESSEE ONLY)

To control susceptible weeds, ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can be applied preemergence to succulent lima beans (TN only).
When applied as indicated on this label, the following weeds in lima beans will be controlled with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~:

Copperleaf, hophornbeam Pigweed (redroot, smooth)	Morningglory (entireleaf, ivyleaf)
See Listed Weed Species section of this label for information on additional weeds.	
<p>Application Rates</p> <p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 2.25 - 3.75 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply 3.0 - 4.5 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply 3.75 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply 3.75 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply 4.5 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 3.75 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • 1.5% to 3.0% OM, apply 4.5 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre • Greater than 3.0% OM, apply 5.25 - 6.0 fl. oz. S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> per acre <p>OM - Organic Matter</p> <p>Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with lower soil pH rates (7.0 and lower) and lower S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> rates with higher soil pH rates (greater than 7.0).</p>	<p>Important</p> <ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use • Consult with university or extension weed management specialists for information on using S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> with specific local varieties or cultivars of lima beans • Do not apply more than 0.1875 lbs sulfentrazone (6.0 fl. oz. product) per acre per 12 month period) The 12 month period starts at the point of first application • Wait a minimum of 7 days after application to plant in coarse textured soils with less than 1.5% organic matter. • Reduce rate of S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> on coarse textured soil with organic matter <1.5% and pH of 7.8 or higher, or on highly eroded soils, or in areas of calcareous outcroppings to minimize adverse crop response. • Planting less than 1 inch in depth or inadequate seed furrow closure or poor growing conditions (diseases, low temperature, soil compaction, excessive moisture) can also cause adverse crop response. • Reduced weed control can occur if crop is experiencing extended periods of dry weather. • Do not incorporate S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> into the soil when using product on lima beans (TN)
<p>Application Instructions:</p> <p>Apply amount of S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> indicated above as a preemergence treatment. Apply product in at least 10 gallons of finished spray per acre. Make application with ground equipment.</p>	

<p style="text-align: center;">MELONS (Citron melon, muskmelon, watermelon)</p> <p>To control susceptible weeds, S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be applied preemergence to melons.</p> <p>When applied as indicated on this label, the following weeds in melons will be controlled with S308.1 <u>SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u>:</p> <div> Lambsquarters, common Morningglory, ivyleaf Nutsedge, yellow </div>	
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Pigweed, red root	Waterhemp (common, tall)
See Listed Weed Species section of this label for information on additional weeds	
Application Rates For Coarse Textured Soils <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.0 - 3.75 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 3.0-4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 3.75 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre For Medium Textured Soils <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 3.75 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 4.5 - 6.8 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre For Fine Textured Soils <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.75 - 5.25 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 4.5 - 6.8 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).	Important <ul style="list-style-type: none"> Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of melons Do not apply more than 0.25 lbs sulfentrazone (8.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand') If seedlings are close to soil surface or have emerged, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC directly to melons
Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above as a preemergence treatment from 48 hours prior to planting up to just before seedling emergence. To avoid severe injury to melons, do not make application after seedlings have emerged. For enhanced control of broadleaf and grass weeds, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC application can be followed with a postemergence melon herbicide.	
Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be split-applied or mixed with burndown herbicide to control emerged weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.	

MINT	
To control susceptible weeds, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied to established stands of dormant mint or to newly planted mint, prior to emergence of new growth.	
When applied as indicated on this label, the following weeds in mint will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC :	
Amaranth, Powell Kochia (ALS and Triazine resistant) Nightshade, Eastern black Shepherdspurse Nutsedge, yellow	Bedstraw, catchweed Lambsquarters, common Nutsedge, yellow Toadflax, yellow Waterhemp (common, tall)
	Chamomile, mayweed Morningglory, ivyleaf Pigweed, redroot Thistle, Russian
See Listed Weed Species section of this label for information on additional weeds.	
Application Rates For Coarse Textured Soils	Important

<ul style="list-style-type: none"> • Less than 1.5% OM, apply 4.5 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 8.0 - 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, apply 8.0 - 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 10.1 - 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> • Less than 1.5% OM, apply 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • 1.5% to 3.0% OM, 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre • Greater than 3.0% OM, apply 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p>	<ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use • Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of mint • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application. • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand') • Do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to mint plantings once new growth has emerged, to avoid severe injury to plant tissue • Application to mint fields under stress (environmental, cultural, pests, disease) may result in crop injury. Apply to healthy mint fields only. • To activate herbicide and move product into the soil, moisture (in the form of rain or overhead irrigation) is required after application
<p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above can be applied to dormant mint in the fall or spring, or preemergence to new mint plantings.</p> <p>Dormant Applications: Application can be made to established stands of mint in the spring (after spring cultivation has been completed) or in the fall (after post-harvest cultivation has been completed), prior to emergence of new growth. Split applications of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be used for preemergence control of winter and spring annual weeds</p> <p>New Planting Applications: When applying to new mint plantings, reduce rate of application by 25% of the rate listed for established plantings. Apply product preemergence to both weeds and mint.</p>	
<p>Tank Mixes: S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be mixed with burndown herbicides labeled for use on mint to control emerged weeds. Enhanced control of emerged weeds can be obtained by also adding a surfactant to the tank mix. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

<p align="center">PEANUTS Southeastern United States Only (AL, GA, MS, NC, SC, VA)</p>	
<p>To control broadleaf weeds and grasses in peanut production, S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied to peanuts preplant incorporated up to 14 days prior to planting, at plant, or up to 12 hours after planting. Use S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC on peanuts only in AL, GA, MS, NC, SC and VA.</p>	
<p>Application Rates For Coarse Textured Soils</p> <ul style="list-style-type: none"> • Application rate (1): apply 4.8 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 	<p>Important</p> <ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions,

- Application rate (2): apply 6.4 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre
- Application rate (3): apply 8.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre

For Medium Textured and Fine Textured Soils

- Application rate (1): apply 6.4 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre
- Application rate (2): apply 8.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre
- Application rate (3): apply 9.6 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre

Consult preceding information regarding Coarse, Medium or Fine soil categories.

pH considerations:

- Use the next lower application rate if the pH of the soil is greater than 7
- Irrigation with alkaline water of pH 8 or greater can result in adverse crop response
- Do not irrigate with water that has a pH greater than 9
- Alkalinity of irrigation water will have minimal impact once peanuts reach 4" to 6" across in size.

Application Rate(1) will control:

Amaranth, spleen	Copperleaf, hophornbeam	Croton, tropic
Crownbeard, golden	Devils claw	Jimsonweed
Lambsquarters, common	Morningglory, entireleaf	Morningglory, red

Application Rate (2) will additionally control:

Amaranth, palmer	Crabgrass, large	Crabgrass, Southern
Eclipta	Goosegrass	Morningglory, pitted
Morningglory, smallflower	Poinsettia, wild*	Redweed
Senna, coffee	Signalgrass, broadleaf	Smartweed, PA (seedling)

Application Rate (3) will additionally control:

Anoda, spurred	Cocklebur, common	Nutsedge, yellow
Nutsedge, purple*	Purslane, common	Sida, prickly
	Starbur, prickly	

*Wild Poinsettia -Application rate (2) will control initial germination as well as several continuing germinations of wild poinsettia

*Purple nutsedge - Application rate (3) will control purple nutsedge if applied preplant incorporated. Partial control will be obtained by preemergence application (up to 85% control) or other application methods (71 % to 84% control)

See **Listed Weed Species** section of this label for information on additional weeds.

Application Instructions:

Apply amount of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ indicated above to soil surface via broadcast or banded application. If applying a broadcast application, apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ in a minimum of 10 gallons of water per acre. If applying a banded application, proportionally adjust the use rate according to the band width.

If applying the product preplant incorporated, mix thoroughly or shallowly incorporate the ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ into the soil. Inconsistent weed control can result if product is incorporated deeper than the maximum incorporation depth of 2 inches.

and any other information on this label prior to use.

- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ with specific local peanut varieties or cultivars
- Do not apply more than 0.3 lbs sulfentrazone (9.6 fl. oz. product) per acre per 12 month period. The 12 month period starts upon the first application of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~
- Do not use on soils that contain less than 1% organic matter (soils classified as 'sand')
- Do not feed livestock peanut forage or hay that has been treated with ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~
- Do not irrigate crops treated with ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ with high pH water (greater than 9)
- To avoid significant adverse crop response, do not apply to exposed peanut tissue or "at-crack"

Tank Mixes: Tank mixing ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with a grass herbicide labeled for peanuts will give optimum control of weeds.

Applying ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with a postemergent peanut herbicide can be used for weeds not controlled by sulfentrazone, or under conditions of excessive weed presence. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

POTATOES

To control undesirable weeds and grasses in potato production, ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can be applied preemergence to potatoes.

When applied as indicated on this label, the following weeds in potatoes will be controlled with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~:

Amaranth, Palmer	Filaree, redstem
Kochia (ALS and Triazine resistant)	Lambsquarters, common
Morningglory (ivyleaf, tall)	Nightshade, Eastern Black
Pigweed, redroot or smooth	Thistle, Russian
Waterhemp (common, tall)	

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Up-to-3.0%-6M, apply 3.0 to 4.5-flrOZr-~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 4.5 to 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 3.0 to 4.5 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 3.75 to 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 5.25 to 6.75 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Fine Textured Soils

- Less than 1.5% OM, apply 3.75 to 5.25 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 4.5 to 6.00 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 6.0 to 8.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with lower soil pH rates (7.0 and lower) and lower ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ indicated above by aerial or ground application to potatoes as a preemergence treatment. Treatment should be made to the soil surface before potatoes emerge, but after planting and dragoff. Undesirable crop response can occur if ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ is applied after potatoes have emerged. Mix ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ in water to make a minimum of 5 gallons of spray solution for aerial application or 10 gallons of spray solution for ground application.

For best results, moisture (rain or irrigation) should occur after application to move the product into the soil. If dry conditions persist within 7 days of

Important

- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with specific local varieties or cultivars of potatoes
- Certain potato varieties can exhibit sensitivity to ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Be cautious if planting sensitive varieties (f. ex., Sangre, Shepody, Snowden) on marginal coarse soil. Crop tolerance of untested potato varieties should be tested prior to planting.
- Do not apply more than 0.25lbs sulfentrazone (8.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.
- Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand')
- To avoid undesirable crop response, do not apply to emerged potatoes

application, **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be incorporated to a depth of no more than 2 inches, to activate the product.

Chemigation Applications

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can also be applied preemergence by chemigation, using enough water for soil surface coverage, but not to runoff (0.25 to 0.5 inch per acre). **S308.4**

SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied prior to potato emergence through solid set, lateral move, end tow, hand move or center pivot sprinkler irrigation systems.

pH considerations

- An undesirable crop response can result from irrigation with alkaline water of pH 7.5 or greater.
- Following a **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** soil application, the amount of available sulfentrazone in the soil can be significantly increased by irrigation with highly alkaline water (high pH)
- Younger or more stressed crops, or crops subjected to higher rates of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** are more susceptible to adverse effects from higher pH irrigation water. As potato growth stage progresses, risks of undesirable crop response is minimized

Tank Mixes: **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be mixed with other soil applied herbicides to improve performance or for use on weeds not controlled by sulfentrazone. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be mixed with burndown herbicides and adjuvants labeled for use on potatoes to control emerged weeds. During chemigation, **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be applied with other properly labeled products used for chemigation in potatoes. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

SOYBEANS

To control susceptible weeds in soybeans, **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be applied to soybeans in the spring (preemergence or preplant incorporated). **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can also be applied in the fall, before spring planting of soybeans.

When applied as indicated on this label, the following weeds in soybeans will be controlled with **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**:

Amaranth, Palmer

Kochia (ALS and Triazine resistant)

Morningglory, spp.

Pigweed, spp.

Russian Thistle

Copperleaf, hophornbeam

Lambsquarters, common

Nightshade

Prickly sida

Waterhemp, spp

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 4.5 to 6.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0 % OM, apply 6.0 to 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 8.0 to 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 6.0 to 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 8.0 to 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 10.1 to 12.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

Important

- Adverse or poor growing conditions (disease, cool weather, pH of 7.5 and above, prolonged and excessive moisture, poor agronomic practices) can cause undesirable crop response (such as discoloration or stunting). Normal growing conditions will lessen and diminish these effects.
- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on his label prior to use

For Fine Textured Soils

- Less than 1.5% OM, apply 8.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 10.1 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 12.0 fl. oz. ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ rates with lower soil pH rates (7.0 and lower) and lower ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ indicated above to the soil surface in the spring, preplant incorporated or preemergence, up to 3 days after planting (applications more than 3 days after planting can result in injury, if seeds are germinating) in conventional, conservation, reduced or no-tillage cropping systems. If seedlings are close to soil surface or have emerged, do not apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~

The listed amount of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ can also be applied in the fall in conservation and no-tillage cropping systems for burndown of existing crop stubble and weeds and for preemergence control of weeds. For optimum results, fall applications should be a part of weed control programs that include spring herbicide applications the following crop season, as needed. Apply in the fall when soil temperature is sustained at 55 °F down to a depth of 4 inches. If using a ridge till production system, form ridges or beds prior to ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ application.

Observe the following date restrictions:

- Areas north of Interstate 90 - Apply after September 30
- Areas north of Interstate 70 - Apply after October 15
- Areas south of Interstate 70 - Do not make fall application

~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ can be applied by ground or aerial application. Mix ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ in water to make a minimum of 5 gallons of spray solution for aerial application or 10 gallons of spray solution for ground application. Be sure to use enough spray volume for acceptable soil coverage. Spray must be applied with nozzles that produce a minimum amount of fine droplets, but also generate optimum soil coverage. If applying the product preplant incorporated, in the spring, mix thoroughly and shallowly incorporate the ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ into the soil. Inconsistent weed control can result if product is not uniformly incorporated or incorporated deeper than the maximum incorporation depth of 2 inches.

Tank Mixes: ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ can be mixed with a burndown herbicide to control emerged weeds. For adequate weed coverage when applying in the fall, mix products with water to make a minimum of 20 gallons of finished spray per acre. If weeds are emerged, adjuvants (such as COC or MSO) can be added to the mix for enhanced burndown activity. For enhanced control of grasses and broad leaf weeds in the spring, ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ can be tank mixed with or followed by an application of a postemergence soybean herbicide. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ with specific local varieties or cultivars of soybean
- Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. If making a preplant fall application, the 12 month period starts at this point.
- Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand')
- To prevent runoff of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ from snowmelt or rain, do not apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ to soils that are frozen or have an existing snow cover.
- Do not apply after soybean seed has germinated

STRAWBERRY

To control susceptible weeds, **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** can be applied preemergence to strawberries.

When applied as indicated on this label, the following weeds in strawberry will be controlled with **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC**.

Corn Spurry	Field Pansy	Groundsel, common
Ladysthumb	Lambsquarters, common	Mayweed
Morningglory, ivyleaf	Nutsedge, yellow	Pigweed, redroot
Pineapple weed	Prostrate knotweed	Shepherdspurse
Waterhemp (common, tall)	White Campion	Wild buckwheat
Yellow nutsedge	Yellow woodsorrel	

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply [3.0 - 6.0] [3.0 - 4.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply [6.0 - 9.0] [4.0 - 8.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- acre

For Medium Textured Soils

- Less than 1.5% OM, apply [3.0-4.5] [4.0-4.5] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply [6.0 - 9.0] [4.0 - 8.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply [6.0 - 12.0] [4.0 - 8.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- acre

For Fine Textured Soils

- Less than 1.5% OM, apply [3.0 - 6.0] [4.0 - 6.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply [6.0-9.0] [4.0 - 8.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply [6.0 - 12.0] [4.0 - 8.0] fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre
- Acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** rates with lower soil pH rates (7.0 and lower) and lower **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** indicated above as a preemergence treatment prior to planting up to just before seedling emergence. To avoid severe injury to strawberry crop, do not make application after seedlings have emerged.

For enhanced control of broadleaf and grass weeds, **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** application can be followed with a postemergence melon herbicide.

Tank Mixes: **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** can be split-applied or mixed with other herbicides labeled for use on strawberries to enhance control to broadleaf weeds and grasses. Tank mix **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** with burndown herbicides to control emerged weeds. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Important

- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** with specific local varieties or cultivars of strawberries
- Do not apply more than 8 fl oz/ (0.25 lb) per acre per application, or 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application
- If seedlings are close to soil surface or have emerged, do not apply **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** directly to crop

SUCCULENT PEAS

Cajanus cajan (includes pigeon pea); **Cicer spp.** (includes chickpea and garbanzo bean); **Lens culinaris** (lentil); **Pisum spp.** (includes dwarf pea, garden pea, green pea, English pea, field pea and edible pod pea)

To control susceptible weeds, ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can be applied preemergence to succulent peas.

When applied as indicated on this label, the following weeds in succulent peas will be controlled with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~:

Copperleaf, hophornbeam
Pigweed (redroot, smooth)

Morningglory (entireleaf, ivyleaf)

See **Listed Weed Species** section of this label for information on additional weeds.

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 2.25 - 3.75 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 3.0 - 4.5 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 4.5 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Fine Textured Soils

- Less than 1.5% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 4.5 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 5.25 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with lower soil pH rates (7.0 and lower) and lower ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ indicated above as a preemergence treatment. Apply product in at least 10 gallons of finished spray per acre. Make application with ground equipment.

Important

- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with specific local varieties or cultivars of succulent peas
- Do not apply more than 0.1875 lbs sulfentrazone (6.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application
- Wait a minimum of 7 days after application to plant in coarse textured soils with less than 1.5% organic matter.
- Reduce rate of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ on coarse textured soil with organic matter < 1.5% and pH of 7.8 or higher, or on highly eroded soils, or in areas of calcareous outcroppings to minimize adverse crop response.
- Planting less than 1 inch in depth or inadequate seed furrow closure or poor growing conditions (diseases, low temperature, soil compaction, excessive moisture) can also cause adverse crop response.
- Reduced weed control can occur if crop is experiencing extended periods of dry weather.
- Do not incorporate ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ into the soil when using product on succulent peas

SUGARCANE

To control susceptible broadleaves, grasses and sedges in sugarcane, **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** can be applied to sugarcane at the following times:

Premergent (newly planted) -broadcast or banded; aerial or ground application
Layby - directed spray; ground application

When applied as indicated in this label, the following weeds in sugarcane will be controlled with **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**:

Morningglory (entireleaf, ivyleaf, red or tall)

Pigweed, red root

Nutsedge, yellow

See **Listed Weed Species** section of this label for information on additional weeds

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 4.5 - 6.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 6.0 - 8.3 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 8.0 - 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 6.0 - 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 8.0 - 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 10.1 - 12.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

For Fine Textured Soils

- Less than 1.5% OM, apply 8.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- 1.5% to 3.0% OM, apply 10.1 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre
- Greater than 3.0% OM, apply 12.0 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** rates with lower soil pH rates (7.0 and lower) and lower **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** indicated above to ratoon or newly planted sugarcane (preemergent) or to sugarcane at lay-by timing (directed spray).

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied aerially (for preemergent application), in a minimum of 5 gallons of spray per acre or by ground equipment (preemergent application or lay-by application), in a minimum of 15 gallons of spray per acre For all applications, use the higher rate on soils with organic matter content higher than 2% or on clay soils.

Tank Mixes

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied with other herbicides or insecticides registered for use in sugarcane. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Important

- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC** with specific local varieties or cultivars of sugarcane
- Pre-harvest interval is 120 days
- Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand')
- Do not apply more than 0.375 lbs sulfentrazone (12.0fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.
- Do not contact crop leaves with **S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC**

SUNFLOWER

To control or suppress weeds in sunflowers, ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can be applied at the following times:
 In the Fall (Preplant), before spring planting of sunflowers (Fall applications allowed only in ND, SD, MT, MN, WY, CO, NE, KS)
 In the Spring (Early Preplant, Preemergence, Preplant Incorporated), prior to planting up to three days after planting.

When applied as indicated on this label, the following weeds in sunflowers will be controlled with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~

Amaranth, Palmer
 Kochia (ALS and Triazine Resistant)
 Morningglory (ivyleaf and tall)
 Pigweed (red root, smooth)
 Thistle, Russian

Filaree, redstem
 Lambsquarters, common
 Nightshade, Eastern black
 Sida, prickly
 Waterhemp (common, tall)

See **Listed Weed Species** section of this label for information on additional weeds

Application Rates

For Coarse Textured Soils

- Less than 1.5% OM, apply 3.0 to 3.75 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 3.0-4.5 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 3.75 - 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Medium Textured Soils

- Less than 1.5% OM, apply 3.0 to 4.5 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 3.75 to 6.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 4.5 to 6.75 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

For Fine Textured Soils

- Less than 1.5% OM, apply 3.75 to 5.25 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- 1.5% to 3.0% OM, apply 4.5 to 6.75 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre
- Greater than 3.0% OM, apply 6.0 to 8.0 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ per acre

OM - Organic Matter

Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with lower soil pH rates (7.0 and lower) and lower ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ rates with higher soil pH rates (greater than 7.0).

Application Instructions:

Apply amount of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ indicated above to stubble or to the soil surface preplant in the fall (fall use only in ND, SD, MT, MN, WY, CO, NE or KS), or early preplant, preemergence or preplant incorporated in the spring prior to planting up to three days after planting (if seed furrow is closed completely and seedlings have not broken the soil surface). For applications in the fall, use a mid to high rate range for your soil type and for applications in the spring greater than three weeks prior to planting, use a high rate range for your soil type, because of the extended time period between application and planting. Plant a minimum of-7 days after-application if soil is coarse textured and contains less than 1.5% organic matter.

If applying this product preplant incorporated in the spring, to reduced or conventional tillage sunflowers, mix thoroughly or shallowly incorporate the ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ into the soil.

Important

- Reduce rate of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ on coarse textured soil with organic matter less than 1.5% and pH of 7.8 or higher, or on highly eroded Soils or in areas of calcareous outcroppings to minimize adverse crop response.
- Planting less than 1 inch in depth or inadequate seed furrow closure or poor growing conditions (diseases, low temperature, soil compaction, excessive moisture) can also cause adverse crop response.
- Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use
- Consult with university or extension weed management specialists for information on using ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with specific local varieties or cultivars of sunflowers
- Do not apply more than 0.25 lbs sulfentrazone (8.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.
- To prevent runoff of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ from snowmelt or rain, do not apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ to soils that are frozen or have an existing snow cover.

<p>Inconsistent weed control could result if product is incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>Moisture (in the form of rain or snow) should occur after application to move the product into the soil. If dry conditions persist, a shallow incorporation may be needed.</p> <p>For maximum weed control, disturb the soil surface as little as possible after application. Destroying the herbicide barrier by mechanically incorporating can allow weed escapes to occur. To prevent runoff of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC from snowmelt or rain, do not apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to soils that are frozen or have an existing snow cover.</p>	<ul style="list-style-type: none"> • Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand') • Product is not to be incorporated any deeper than 2 inches
<p>Tank Mixes</p> <p>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be tank mixed or split-applied with burndown herbicides such as paraquat or glyphosate at their full labeled rate to control emerged weeds. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be tank mixed with other herbicides labeled for use on sunflowers to enhance weed control and suppression. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings and other restrictions.</p>	

TOBACCO (Burley, Flue-Cured and Dark)		
S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be applied preemergence or preplant incorporated to tobacco transplants, for control of susceptible weeds.		
When applied as indicated on this label, the following weeds in tobacco will be controlled with S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC		
Amaranthus, livid	Filaree, redstem	Galinsoga, hairy
Lambsquarters, common	Morningglory (ivyleaf, tall)	Pigweed (redroot, smooth)
Sida, prickly	Signalgrass, broadleaf	Smartweed, Pennsylvania
See Listed Weed Species section of this label for information on additional weeds		
Application Rates		Important <ul style="list-style-type: none">• Adverse or poor growing conditions (disease, cold weather, unfavorable pH soils, excessive moisture or drought, poor agronomic practices or other unfavorable conditions) can cause undesirable crop response in tobacco transplants, particularly if they are weakened and are in conditions of compacted or saturated soil or poor drainage. Normal growing conditions will lessen and diminish these effects.• If transplants are set too shallowly, if heavy rainfall occurs after transplant, temporary stunting of transplants can occur.• Observe responsible transplanting practices to avoid exposure (i.e., washing or crusting over) of transplants to treated soil. Necrosis (typically localized and inconsequential) can be caused if treated soil is splashed onto tobacco leaves.• Read and follow all precautions, instructions, rotational crop
For Coarse Textured Soils		
<ul style="list-style-type: none">• Less than 1.5% OM, apply 4.5 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• 1.5% to 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• Greater than 3.0% OM, apply 8.0 - 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre		
For Medium Textured Soils		
<ul style="list-style-type: none">• Less than 1.5% OM, apply 6.0-8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• 1.5% to 3.0% OM, apply 8.0-10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• Greater than 3.0% OM, apply 10.1-12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre		
For Fine Textured Soils		
<ul style="list-style-type: none">• Less than 1.5% OM, apply 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• 1.5% to 3.0% OM, apply 10.1 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre• Greater than 3.0% OM, apply 12.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre		
OM - Organic Matter		
Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4		

<p><u>HERBICIDEAQUESTA 4 SC</u> rates with higher soil pH rates (greater than 7.0).</p>	
<p>Application Instructions: Amount of <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> indicated above can be broadcast applied to the soil surface preplant or preplant incorporated, in a minimum of 10 gallons of finished product per acre, from 14 days to 12 hours before transplanting tobacco.</p> <p>If applying the product preplant incorporated, shallowly incorporate the <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> into the soil. Inconsistent weed control can result if product is not uniformly incorporated, or incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>When applying on Non-Bedded Fields (i.e., raised beds not formed prior to transplanting) and <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> is surface applied - use light finishing equipment to remove equipment tracks from the field after application, and do not disturb the soil to a depth greater than 2 inches. Reduced or unacceptable weed control could occur in the drill if pre-transplant surface applications are not followed by timely cultivations.</p> <p>When applying to Bedded Fields (i.e. raised beds formed prior to transplanting), any dragging or knocking down of beds prior to transplanting must occur prior to <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> application. <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can concentrate in the bed if the product is not mixed thoroughly and uniformly into the soil, or incorporated deeper than the maximum incorporation depth of 2 inches.</p> <p>New tobacco transplants can be replanted if the first transplant does not produce a uniform stand. If replanting:</p> <ul style="list-style-type: none"> - Do not re-treat fields with a second application of <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> or any other sulfentrazone product - Do not reform beds prior to replanting; plant new transplants into existing beds that have already been treated with <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> 	<p>guidelines, replanting instructions, and any other information on this label prior to use</p> <ul style="list-style-type: none"> • Consult with university or extension weed management specialists for information on using <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> with specific local varieties or cultivars of tobacco, and for agronomic recommendations for local conditions and specific tobacco varieties. • Do not apply <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> to shade grown tobacco, tobacco seedling beds or tobacco in greenhouses. • To avoid unacceptable injury, do not apply <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> post transplant • Do not use on soils that contain less than 1 % organic matter (soils classified as 'sand') • Mix thoroughly and uniformly and do not incorporate product deeper than the maximum incorporation depth of 2 inches to avoid inconsistent weed control or Concentrating <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> into the soil (which can result in crop injury). Additionally, do not perform other tillage practices that could concentrate <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> into the soil • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point
<p>Tank Mixes <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be mixed with a grass herbicide (or grass herbicide can be applied separately), to give optimum broad spectrum grass weed control. Read and follow the label of each product used for precautionary statements, directions for use, rates and timings, and other restrictions.</p>	

TOMATO (Transplanted only)	
<p>To control susceptible weeds, <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u> can be applied to tomato (transplanted only) at the following times: Preemergence, prior to transplant.</p>	
<p>When applied as indicated on this label, the following weeds in cabbage will be controlled with <u>S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC</u>:</p>	
<p>Lambsquarters, common Pigweed, redroot</p>	<p>Morningglory, ivyleaf Waterhemp (common, tall) Nutsedge, yellow</p>
<p>See Listed Weed Species section of this label for information on additional weeds</p>	
Application Rates	Important

<p>For Coarse Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 2.25 - 3.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Medium Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.0 - 4.5 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>For Fine Textured Soils</p> <ul style="list-style-type: none"> Less than 1.5% OM, apply 3.0 - 6.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre 1.5% to 3.0% OM, apply 6.0 - 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre Greater than 3.0% OM, apply 8.0 fl. oz. S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC per acre <p>OM - Organic Matter Consult preceding information regarding Coarse, Medium or Fine soil categories. Use rate is inversely dependent on soil pH - use higher S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with lower soil pH rates (7.0 and lower) and lower S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC rates with higher soil pH rates (greater than 7.0).</p> <p>Application Instructions: Apply amount of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC indicated above as a banded or broadcast treatment on tomato (transplanted only). Make application before tomato is transplanted.</p>	<ul style="list-style-type: none"> • Read and follow all precautions, instructions, rotational crop guidelines, replanting instructions, and any other information on this label prior to use • Consult with university or extension weed management specialists for information on using S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC with specific local varieties or cultivars of tomato • Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application (including preplant fall application) • Do not use on soils that contain less than 1% organic matter (soils classified as 'sand')
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TURF GRASSES

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can be used to control broadleaf, grass and sedge weeds in established turfgrasses (seeded, sodded or sprigged). Turf grasses should be established (good root system; uniform stand) tolerant to ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ (see below). A healthy root system is necessary to fill in exposed edges, which are more susceptible to ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~.

Tolerant Turf Grasses

Cool Season Grasses: Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ at 4 to 8 oz per acre (unless noted) to:

Bentgrass, creeping*

Fescue Fine** (*Festuca rubra*)

Fescue, Tall** (*Festuca arundinacea*)

Ryegrass

Perennial (*Lolium perenne*)

Bluegrass

Kentucky (*Poa pratensis*)

Bluegrass

Rough*** (*Poa trivialis*)

*Apply a maximum of 4 oz ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ to creeping bentgrass

** An undesirable plant response can occur if applying ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ to certain varieties of Chewings fine fescue or tall fescue.

Warm Season Grasses - Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ at 8 to 12 oz per acre to:

Bahiagrass*** (*Paspalum notatum*)
Buffalograss (*Buchloe dactyloides*)
Carpetgrass (*Axonopus affinis*)
Centipedegrass (*Eremochloa ophioides*)
Kikuyugrass (*Pennisetum clandestinum*)
Sheashore Paspalum (*Paspalum vaginatum*)

Zoysiagrass*** (*Zoysia japonica*)
Bermudagrass (*Cynodon dactylon*)
Bermudagrass Hybrids (*Cyn bluegrass*)
St. Augustinegrass*** (*Stenotaphrum secundatum*)

*** St. Augustine grass and some varieties of bahiagrass, rough bluegrass or zoysiagrass, particularly turfgrass that has been stress-weakened can experience temporary leaf surface discoloration (removed upon mowing) upon application of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Chemicals, certain cultural practices, disease, mechanical exposure and cultivation and weather can all be causes of stress-weakened turf.

Not all varieties or cultivars have been tested with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Consult with university or weed management specialists for information on using ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with specific local varieties or cultivars of turfgrass. Prior to treatment on new turfgrass varieties, test response to ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ by applying to a small area of turfgrass.

Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. Oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.

Preemergence Weed Control

When applied as indicated on this label, the following weeds will be controlled or suppressed with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~

Summer Annual Weeds - apply in early spring, prior to germination of weed seeds.

Broadleaf Weeds:

Black medic (*Meidcago lupulina*)
Common purslane (*Portulaca oleracea*)
Pigweed, redroot (*Amaranthus retroflexus*)
Pigweed, smooth (*Amaranthus hybridus*)

Prostrate knotweed (*Polygonum aviculare*)
Spurge (*Euphorbia spp*)
Spurge, prostrate (*Euphorbia supine*)
Spurge, spotted (*Euphorbia maculate*)

Grassy Weeds:

Barnyardgrass (*Echninochloa crusgalli*)
Crabgrass, large (*Digitana sanguinalis*)
Crabgrass, smooth (*Digitana ischaemum*)

Foxtail, green (*Setana vindis*)
Foxtail, yellow (*Setana glauca*)
Goosegrass (*Eleusine indica*)

Winter Annual Weeds - apply in late summer or early fall.

Broad leaf Weeds:

Buttercups (*Ranunculus spp.*)
Carolina geranium (*Geranium carolinianum*)
Chickweed, common (*Stellana media*)
Chickweed, mouseear (*Cerastium vulgatum*)
Common groundsel (*Senecio vulgans*)
Corn Speedwell (*Veronica arvensis*)
Hairy bittercress (*Cardamine hirsute*)

Henbit (*Lamium amplexicaule*)
Knawel (*Scieranthus annuus*)
Large Hop clover (*Trifolium campestre*)
Parsley piert (*Alchemilla microcarpa*)
Spurweed (*Soliva pterosperma*)
Violet, Johnny-jump-up (*Viola rafeinesquii*)

Grassy Weeds:

Annual bluegrass (*Poa annua*)

Annual ryegrass (*Lolium multiflorum*)

Postemergence Weed Control

When applied as indicated on this label, the following weeds in turfgrass will be controlled or suppressed with **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC**:

Broad leaf Weeds:

Bedstraw, catchweed (<i>Galium aparine</i>)	Violet, wild (<i>Viola pratensis</i>)
Beggarweed, Florida (<i>Desmodium illinoense</i>)	Woodsorrel, creeping (<i>Oxalis corniculata</i>)
Bittercress (<i>Cardamine spp.</i>)	Woodsorrel, yellow (<i>Oxalis stricta</i>)
Black Medic (<i>Medicago lupulina</i>)	Carolina geranium (<i>Geranium carolinianum</i>)
Buttercup (<i>Ranunculus spp.</i>)	Chickweed, common (<i>Stellaria media</i>)
Carpetweed (<i>Mollugo verticillata</i>)	Cinquefoil (<i>Potentilla spp.</i>)
Chickweed, mouseear (<i>Cerastium vulgatum</i>)	Copperleaf (<i>Ascalypha spp.</i>)
Clover (<i>Trifolium spp.</i>)	Dandelion (<i>Taraxacum officinale</i>)
Cudweed (<i>Gnaphalium spp.</i>)	Dollarweed (<i>Hydrocotyl umbellata</i>)
Dock, curly (<i>Rumex crispus</i>)	Evening primrose (<i>Oenothera biennis</i>)
Eclipta (<i>Eclipta prostrata</i>)	Filaree (<i>Erodium spp.</i>)
Fiddleneck (<i>Amsinckia spp.</i>)	Garlic, wild (<i>Allium vineale</i>)
Galinsoga (<i>Galinsoga ciliata</i>)	Ground ivy (<i>Glechoma hederacea</i>)
Goldenrod (<i>Solidago spp.</i>)	Henbit (<i>Lamium amplexicaule</i>)
Groundsel, common (<i>Senecio vulgaris</i>)	Knotweed, prostrate (<i>Polygonum aviculare</i>)
Knawel (<i>Scieranthus annuus</i>)	Lambsquarters, common (<i>Chenopodium album</i>)
Kochia (<i>Kochia scoparia</i>)	Lespedeza, common (<i>Lespedeza striata</i>)
Lawn burweed (spurweed) (<i>Soliva pterosperma</i>)	Onion, wild (<i>Allium canadense</i>)
Mallow, common (<i>Malva neglecta</i>)	Pigweed, redroot (<i>Amaranthus retroflexus</i>)
Parsley piert (<i>Alchemilla arvensis</i>)	Pigweed, tumble (<i>Amaranthus albus</i>)
Pigweed, smooth (<i>Amaranthus hybridus</i>)	Plantain, buckhorn (<i>Plantago lanceolata</i>)
Pineapple weed (<i>Matricaria matricariodes</i>)	Purslane, common (<i>Portulaca oleracea</i>)
Puncture weed (<i>Tribulus terrestris</i>)	Redweed (<i>Melochia corchorifolia</i>)
Pusley, Florida (<i>Richardia scabra</i>)	Shepherd's purse (<i>Capsella bursa pastonis</i>)
Rocket, London (<i>Sisymbrium irio</i>)	Sorrel, red (<i>Rumex acetosella</i>)
Smartweed, PA (<i>Polygonum pennsylvanicum</i>)	Spurge, annual (<i>Euphorbia spp.</i>)
Speedwell (<i>Veronica spp.</i>)	Spurge, spotted (<i>Euphorbia maculata</i>)
Spurge, prostrate (<i>Euphorbia humistrata</i>)	Velvetleaf (<i>Abutilon theophrasti</i>)
Star of Bethlehem (<i>Ornithogalum umbellatum</i>)	Violet, Johnny-jump-up (<i>Viola rabeifolia</i>)

Grassy Weeds:

Goosegrass (*Eleusine indica*)

Sedges:

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 glubulosus</i>)
Sedge, Surinam (<i>Cyperus surinamensis</i>)	Sedge, Texas (<i>Cyperus polystachyos</i>)

***NOTE:** Split applications give optimum control of purple nutsedge. When actively growing purple nutsedge is evident, apply as indicated below:

Cool season grasses: 2 - 4 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre first application, followed by second application of 4 fl. oz. per acre (do not exceed 8 fl. oz. total on cool season grasses)

Warm season grasses: 6 - 8 fl. oz. **S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC** per acre first application, followed by second application of 4-6 fl. oz. per acre (do not exceed 12 fl. oz. total on warm season grasses)

Observe maximum rate per acre based on turf variety, as indicated above.

Allow 35 days between applications

Application Instructions

Apply amount of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ indicated above to turfgrass to control or suppress indicated weeds.

Best control is achieved with grassy weeds when applied with grasses are actively growing and small (pre tiller stage). Application rates lower than 12 fl. oz/acre will control grasses for 60 days.

Optimum control of broadleaf weeds will occur if application is made shortly after weed emergence.

Applications to sprigged, overseeded or reseeded areas: Turfgrasses can be sprigged, overseeded or reseeded after ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ applications. Best results are obtained from waiting at least 1 month after ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ application before sprigging, overseeding or reseeding. If slight plant response can be tolerated, overseeding of Bermudagrass with perennial ryegrass can be done between 2 to 4 weeks after ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ application.

Observing proper fertilization, irrigation and soil cultivating practices, and using mechanical or power seeding equipment will give optimum overseeding or reseeding results.

Optimum weed control is obtained with thorough spray coverage.

Tank Mixes and Adjuvants

Tank mixing with other pesticides registered for use on turfgrass can extend the weed control range and enhance efficacy of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ for both preemergence and postemergence control. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Use of adjuvants or surfactants with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can cause short-term discoloration of some turf species.

~~SynTelus, LLC~~~~Volantis, LLC~~ does not advise use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with surfactants or adjuvants.

Important

- Establish sod production areas for three (3) months before initial treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~
- Temporary undesirable effects can be caused by the use of surfactants with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Perform an on-site evaluation of surfactants for effects to turfgrasses and mixture compatibility prior to use.
- Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.
- Pre harvest interval is 3 months
- Do not apply to ornamental beds or landscape ornamental plants.
- Do not feed forage or allow grazing of turf treated with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~
- Use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with surfactants is not advised unless surfactant / sulfentrazone combinations have previously proven to be safe to a particular turf variety
- Use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ mixed with or applied within 7 days of herbicides containing the active ingredient trinexapac-ethyl can result in temporary turfgrass discoloration. Applying ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ and trinexapac-ethyl herbicides 7 or more days apart decreases possibility of discoloration.

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not use or store around the home.

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.

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

CONTAINER HANDLING: 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.

CONTAINER HANDLING: Refillable container.

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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Steps to be taken in case material is released or spilled:

In case of release or spill, isolate area and keep unprotected persons or animals away from area. Dike and contain the spill with inert material (sand, earth, cat litter or commercial clay, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of Volantis, LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Volantis, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, neither Volantis, LLC, the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and

all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

Warranty and Disclaimer Statement

~~The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of SynTelus, LLC (SynTelus) can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.~~

~~SynTelus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to SynTelus, and is subject to the inherent risks described above.~~

~~TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, SYNTELUS DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS. SYNTELUS, MANUFACTURER, AND SELLER DISCLAIM AND SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE, HANDLING, APPLICATION, STORAGE, OR DISPOSAL OF THIS PRODUCT OR FOR DAMAGES IN THE NATURE OF PENALTIES, AND THE USER AND BUYER WAIVE ANY RIGHT THAT THEY MAY HAVE TO SUCH DAMAGES. NO AGENT, REPRESENTATIVE OR EMPLOYEE OF SYNTELUS IS AUTHORIZED TO MAKE ANY WARRANTY, GUARANTEE OR REPRESENTATION BEYOND THOSE CONTAINED HEREIN OR TO MODIFY THE WARRANTIES CONTAINED HEREIN. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE TOTAL LIABILITY OF SYNTELUS, MANUFACTURER, AND SELLER, SHALL BE LIMITED TO THE PURCHASE PRICE PAID, OR AT SYNTELUS'S ELECTION, THE REPLACEMENT OF THE PRODUCT.~~

~~S308.1 Sulfentrazone 4 Herbicide~~Aquesta 4 SC is a trademark of ~~SynTelus, LLC~~Volantis LLC.
Spartan®4 F Herbicide is a registered trademark of FMC Corporation.

~~S308.1 Sulfentrazone 4 Herbicide~~Aquesta 4 SC is not manufactured, or distributed by FMC Corporation, seller of Spartan® 4 F Herbicide.

Sublabel B: Turf and Non-Crop Use

GROUP	14	HERBICIDE
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~~S308.1 Sulfentrazone 4~~ ~~Herbicide~~Aquesta 4 SC

ACTIVE INGREDIENT:

Sulfentrazone* 39.6%

OTHER INGREDIENTS: 60.4%

TOTAL: 100.0%

*Equivalent to 4 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN **CAUTION**

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

FIRST AID	
IF INHALED:	<ul style="list-style-type: none">• 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:	<ul style="list-style-type: none">• Take off contaminated clothing.• Rinse skin immediately with plenty of water for 15-20 minutes.• Call a poison control center or doctor for treatment advice.
IF IN EYES:	<ul style="list-style-type: none">• Hold eye open and rinse slowly and gently with water for 15-20 minutes.• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.• Call a poison control center or doctor for treatment advice.
IF SWALLOWED:	<ul style="list-style-type: none">• Call a poison control center or doctor immediately for treatment advice.• Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor.• Do not give anything by mouth to an unconscious person.
HOT LINE NUMBER	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For medical emergencies call 1-844-685-9173.	
NOTE TO PHYSICIAN: Sulfentrazone is expected to have low oral and dermal toxicity, and moderate inhalation toxicity. It is expected to be slightly irritating to the skin and minimally irritating to the eyes. Treatment is otherwise controlled removal of exposure followed by symptomatic and supportive care.	

For Chemical Emergency
Spill, Leak, Fire, Exposure, or Accident
Call CHEMTREC Day or Night

Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted)

Manufactured for:

SynTelus, LLC/Volantis, LLC

1204 Village Market Place, #273609 W Railroad Ave.

Morrisville, NC 27560/Toluca, IL 61369

EPA Reg. No. **91234-992647-6**

EPA Est. No. _____

NET CONTENTS: _____ GALS

Contains Sulfentrazone, the active ingredient used in
Spartan® 4 F Herbicide.

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)

Some materials that are chemical resistant to this product are made of any waterproof material.

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride,
- Shoes plus socks

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product. Do not re-use them.

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

USER SAFETY RECOMMENDATIONS

Users should:

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

ENVIRONMENTAL HAZARDS

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

Groundwater advisory:

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

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

Surface water advisory:

Sulfentrazone can contaminate surface water through spray drift. Under some conditions, sulfentrazone may also have a high potential for runoff into surface water (primarily via dissolution in runoff water), for several to many months post-application. These include poorly draining or wet soils with readily visible slopes toward adjacent surface waters, frequently flooded areas, areas overlying extremely shallow groundwater, areas with in-field canals or ditches that drain to surface water, areas not separated from adjacent surface waters with vegetated filter strips, and areas over-lying tile drainage systems that drain to surface waters.

Physical/Chemical Hazards

Do not use or store near heat or open flame.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application.

Applicators must not exceed labeled rates of this product. Refer to specific crop directions for use for maximum use rates. Calculate the 12 month period for the purpose of maximum use rates from when ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ is first applied.

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. These ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ requirements 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.

Personal Protective Equipment (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 made of any waterproof material
- shoes plus socks

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

Reentry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until sprays have dried.

HERBICIDE RESISTANCE

~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ must be applied at the labeled rates and in accordance with label directions. Do not apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ at rates less than those listed in this label. Observe target areas prior to treatment and apply ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ when weeds are smaller.

If levels of control provided by applications of this product is reduced, and cannot be accounted for by factors such as misapplication, abnormal levels of target species or extremes of weather, it may be the case that target species have developed a strain resistant to applications of ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~. If resistance develops, ~~S308.1 SULFENTRAZONE-4 HERBICIDEAQUESTA 4 SC~~ may not provide sufficient control of target species. Where you suspect target species are developing resistance, contact State/local agricultural advisors.

Certain species may develop resistance to this product/other herbicides where they are used repeatedly. Application of pesticide products therefore should be carried out in consultation with local/State agricultural advisors so that local resistance management strategies can be implemented.

In order to limit the possibility of resistance developing, apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ in rotation with products that have a different mode of action and other classes of chemistry.

PRODUCT INFORMATION

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ is a soil-applied selective herbicide. It will control listed grasses, sedges and broadleaf weeds. ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ is a flowable product that contains 4 pounds of active ingredient (sulfentrazone) per gallon.

The active ingredient sulfentrazone inhibits an enzyme required by plants in order to produce chlorophyll. Inhibiting this enzyme leads to the release of singlet oxygen (O) which then disrupts cellular membranes, resulting in cellular leakage and cellular death ultimately resulting in plant death.

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ has a selective mode of action because sulfentrazone has a greater affinity for the PRO IX enzyme in listed weed species as opposed to listed crops.

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ must be prepared and used in such a way so as to prevent the following:

- spills
- improper disposal of spray mixtures, rinsate or any excess pesticide
- back siphoning in wells

Setback

The following activities must not be carried out within 50 feet of any well (including drainage and abandoned wells) unless the activity is carried out on an impervious pad that has been built to withstand the heaviest possible weight that will be moved across the pad or placed upon it:

- Loading
- Mixing
- Washing/rinsing ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ from application equipment

The impervious pad must be made to contain any leaks or spills, as well as any rinsate/washwaters and rain that may fall upon it. An impervious pad that does not have a roof must have enough capacity to contain a minimum of 110% of the volume of the largest container that will be placed on the pad. Those pads that are covered by a roof must have enough capacity to contain a minimum of 100% of the volume of the largest container that will be placed on the pad. The roof must be big enough to completely exclude contact with the pad from rainfall.

The above containment volume minimum must be maintained. The minimum capacity volumes do not apply to the following:

- Vehicles delivering pesticide product to the load/mix area

Applicators must ensure that they are aware of any State requirements for containment and set back from wells.

The impervious pad must be self-contained so that surface water cannot flow over or from one pad. They must also be sloped to allow for material removal.

Do not load or mix ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ within 50 feet of any sinkholes, reservoirs, impounded or natural lakes, wells (including drainage and abandoned wells) or intermittent/perennial rivers and streams. This restriction does not apply where there are properly diked

loading/mixing areas or impervious pads. The restriction also does not apply where abandoned wells are properly plugged or capped.

APPLICATION INSTRUCTIONS

Apply S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC as a broadcast treatment at rates indicated, in enough water to obtain good coverage and to make at least 10 gallons finished spray per acre.

When S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC is tank mixed or applied alone, use water, as the carrier.

In order to assure appropriate amounts of moisture for activation of product, best results will be obtained if S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC is applied in early spring, late summer or fall.

Make application with a boom and nozzle sprayer or boomless application system. Make application at spray pressure of 25 psi or below, unless the manufacturer specifies otherwise. Achieve best possible spray delivery and coverage, with minimum amounts of fine spray droplets by utilizing properly chosen and adjusted nozzles, spray tips, and screens.

Applications only to railroad rights of way can be made by helicopter.

Do not allow spray to drift onto adjacent plants as injury to other plants may occur.

When S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC has been activated, it will provide control of listed weed species. The level of control will depend on the size and type of weed species when S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC is activated. The control of listed germinating weed species will be reduced when rain or irrigation follows a period of dry weather.

Where there is prolonged periods when rainfall/irrigation is not available, alternative weed control methods should be considered.

Once a treatment with S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC has been made, seedlings and germinating seeds absorb sulfentrazone from the soil solution. The amount of available active ingredient contained in the soil solution, is determined by the following factors:

- soil type
- soil pH
- soil organic matter content

Application by Air

- Apply S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC using appropriate nozzles that will allow for optimal coverage, will minimize drift and will keep fine spray droplets to a minimum.
- Apply S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC in an appropriate volume for sufficient coverage. Use minimum spray volume of 5 gallons per acre.
- Do not apply S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC when wind speed is likely to cause drift outside the target area.
- For Non-Crop use, application can be made by helicopter to railroad rights-of-way only

Application by Ground

- Apply S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC using a boom and nozzle sprayer with the appropriate spray tips, screens and nozzles. Application equipment must be calibrated for optimal coverage and spray distribution at the appropriate pressure.
- Use spray nozzles that will minimize drift by keeping fine spray droplets to a minimum.

- Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC in an appropriate volume for sufficient coverage. Use a minimum spray volume of 10 gallons per acre. Higher volumes of water are more effective if weed populations are dense.

CALIFORNIA ONLY SPECIFIC RESTRICTIONS ON APPLICATIONS OF ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC

Runoff Ground Water Protection Areas. Do not use in areas identified by the California Department of Pesticide Regulation as runoff ground water protection areas* unless one of the following management practices can be met:

- Incorporation of the pesticide. Within 48 hours after the day this product is applied, the pesticide shall be incorporated on at least 90 percent of the area treated; using a disc, harrow, rotary tiller, or other mechanical method, or by sprinkler or low flow irrigation, including chemigation where allowed by the label, using a minimum of ¼ inch of irrigation water and a maximum of one inch as described under Application Instructions, at application rates that do not cause surface water runoff from the treated property or to wells on the treated property; or
- Retention of runoff on field. For six months following the application, the field shall be designed, by berms, levees, or nondraining circulation systems, to retain all irrigation runoff and all precipitation on, and drainage through, the field. The retention area on the field shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours); or
- Retention of runoff in a holding area off the field. For six months following application, all runoff shall be channeled to a holding area off the application site, under the control of the property owner, that is designed to retain all irrigation runoff and all precipitation on, and drainage through, the treated field and all other areas draining onto that holding area. The holding area shall not have a percolation rate of more than 0.2 inches per hour (5 inches per 24 hours); or
- Runoff onto a fallow field. For six months following application, runoff shall be managed so that it runs off onto an adjacent unenclosed fallow field at least 300 feet long that is not irrigated for six months after application with the exception of the addition of adequate moisture that is required for herbicidal activation following application as described under Application Instructions, with full consideration of any plant back restrictions.

Artificial Recharge Basins. Do not use below the high water line inside artificial recharge basins (a surface facility, such as an infiltration pond or basin, or spreading ground that is specifically designed and managed to increase the infiltration of introduced surface water supplies into a ground water basin), unless this product is applied six months or more before the basin is used to recharge ground water.

Unlined Canals and Ditches. Do not use below the high water line inside unlined canals and ditches unless either (a) the pesticide user can document that the percolation rate of the canal or ditch is equal to or less than 0.2 inches per hour (0.002 gallons per minute per square foot), or (b) the pesticide is applied six months before water is run in the canal or ditch.

Rights-of-Way. Do not use on engineered rights-of-way in areas established by the California Department of Pesticide Regulation as leaching or runoff ground water protection areas* unless either (a) any runoff from the treated right-of-way shall pass through a noncrop fully vegetated area adjacent, and equal in area, to the treated area, or spread out onto an adjacent unenclosed fallow field that is at least 300 feet long and that will not be irrigated for six months following application with the exception of the addition of adequate moisture that is required for herbicidal activation following application as described under Application Instructions, with full consideration of any plantback restrictions, or (b) the property operator complies with any permit issued pursuant to the storm water provisions of the federal Clean Water Act pertaining to the treated area.

Leaching Ground Water Protection Areas. Do not use in areas designated by the California Department of Pesticide Regulation as leaching ground water protection areas* unless either (a) the user does not apply any irrigation water for six months following application of this product or (b) the user applies this product to the planting bed or the berm above the level of irrigation water in the furrow or basin and the water level shall remain at or below the level for six months following application of the

following application as described under Application Instructions, or (c) irrigation is managed so that the ratio of the amount of irrigation water applied divided by the net irrigation requirement is 1.25 or less for six months following application of this product.

*Consult with your County Agricultural Commissioner to determine whether the application will be within an area designated by the California Department of Pesticide Regulation as either a Runoff Ground Water Protection Area or a Leaching Ground Water Protection Area. Details regarding the locations of these areas are also available via the internet at <http://www.cdpr.ca.gov/docs/emon/ehap.htm>.

Mixing with Liquid Fertilizers

~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ may be applied in combination with liquid fertilizers. Local advice regarding fertilizers can yield recommendations of products best suited in your area (e.g., urea or DAN solutions). Follow use and mixing and directions on fertilizer labels. Determine the compatibility of a liquid fertilizer combination before mixing [In a lidded glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. If mixture forms precipitates (flakes or sludge), gels, balls up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes].

Mixing and Loading Instructions

- ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ may be applied on its own or in combination with other herbicides for a broader spectrum of weed control. Combinations with other products may not have been tested, therefore, carry out a compatibility test before mixing and applying [In a lidded glass jar (~1 quart size), add all mix partners, in their relative proportions. Invert, shake or mix the jar thoroughly. If mixture forms precipitates (flakes or sludge), gels, balls up or forms oily films or layers, this indicates incompatibility. Though signs of incompatibility will typically be seen within 5 minutes of mixing, mixture should be observed for approximately 30 minutes].
- Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.
- Spray equipment must be clean and free of product residue prior to mixing an application solution of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Refer to Cleaning Directions below and to the cleaning directions of the product(s) previously applied.
- Mix ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ using the following procedure:
 1. Fill a clean spray tank with ½ of water required for treatment.
 2. Begin agitation.
 3. Use a clean container to create a slurry of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ and water*.
 4. Add the slurry slowly to the spray tank, continuing agitation throughout.
 5. Rinse the slurry mix container and add rinsate solution to spray tank.
 6. Finish filling spray tank to required level.
 7. Maintain agitation throughout. The ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~/water slurry must be mixed thoroughly prior to application.
 - * For best mixing of the ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~/water slurry, add the slurry using induction systems on the sprayer fill plumbing system.
- The spray application solution must be applied immediately following mixture.
- Maintain agitation throughout mixture and application.
- Do not store spray solution in the spray tank for an extended period of time, or overnight.
- A tank mixture containing ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ must not be premixed in nurse tanks.

Cleaning Application Equipment

Adverse crop reaction may result if residues of this product are left in spray equipment following application. Spray equipment must be cleaned immediately after treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~, and before applications with other products.

- Use the following procedure
 1. Drain the spray application equipment, including tank, hoses, spray boom and nozzles.
 2. Clean inside the spray tank with a high-pressure detergent, removing residues and sediment.
 3. Thoroughly rinse the spray tank.
 4. Flush the spray system out using water, including hoses, spray boom and spray nozzles.
 5. Combine 3 gallons of ammonia (with a minimum of 3% active ingredient) in 100 gallons of water. Make sufficient cleaning solution to operate the spray application equipment for a minimum of 15 minutes so that the system is thoroughly flushed.
 6. Remove spray tips, and all screens and filters and clean separately using the ammonia solution (step 5).
 7. Leave the cleaning solution or water in the nozzles, spray booms, hoses and spray tank overnight (or during storage) to ensure thorough cleaning.
 8. Drain the system completely prior to re-use. Use clean water to rinse/flush nozzles, spray booms, hoses and the spray tank. Remove spray tips, and all screens and filters and clean separately, using the ammonia solution (step 5).
 9. Dispose of rinsate and excess cleaning solution in compliance with Federal, State, and local regulations and guidelines.
- Rinsate and cleaning solution must not be applied to sensitive crops.
- Spray application equipment must not be stored for any extended period while ~~S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC~~ application solution remains in the spray lines, nozzles, strainers, or boom plumbing.
- When application equipment has been idle or in storage, flush the nozzles and spray boom with clean water prior to use for application of product.
- If small amounts of this product remain in equipment after cleaning, ~~S308.1 SULFENTRAZONE 4 HERBICIDE AQUESTA 4 SC~~ may be released during later applications, which may cause an adverse reaction from certain crops/other vegetation. The applicator is solely responsible for any damage caused by equipment that is not properly cleaned.
- Equipment must not be flushed or drained near desirable plants/trees.
- Ensure that bodies of water are not contaminated with application solution, rinsate or cleaning solution, including water that may be used for other crops, i.e. irrigation water.

SPRAY DRIFT REDUCTION ADVISORY

To avoid drift, do not apply when wind speeds exceed 10 mph. Do not exceed spray pressures of 40 psi unless specified by the manufacturer of drift reducing spray tips and nozzles.

Spray Drift Management

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 aerial applications. These requirements do not apply to forestry applications, public health uses or to applications of dry materials.

1. The distance of the outermost nozzles on the boom must not exceed 75 % the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees.
3. Observe the regulations of the State where applications are made.
4. Applicators must observe and abide by the requirements of the Aerial Drift Reduction Advisory.

Information on Droplet Size

The most effective way to reduce drift potential is to apply large droplets. The best drift management strategy is to apply the largest droplets that provide sufficient coverage for pesticide performance.

Applying larger droplets reduces drift potential but will not prevent drift if applications are made improperly or under unfavorable environmental conditions. (See information on Wind, Temperature and Humidity, and Temperature Inversions in subsequent sections).

Controlling Spray Droplet Size

Volume - Use high flow rate nozzles to apply the greatest practical spray volume. Nozzles with higher rated flow generally produce larger droplets. .

Pressure - When higher flow rates are needed, use higher flow rate nozzles rather than increasing spray Pressure. Do not exceed the nozzle manufacturer's specified pressures. Lower pressure produces larger droplets in many types of nozzles.

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

Nozzle Orientation - For aerial application, the recommended practice is to orient nozzles so that the spray is released parallel to the airstream. This orientation usually produces larger droplets as compared to other nozzle orientations. Significant nozzle deflection from horizontal will reduce droplet size and increase drift potential.

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 for both ground and aerial applications. Solid stream nozzles oriented straight back usually produce the largest droplets and the lowest drift potential in aerial applications.

Boom Length - For some aerial use patterns, reducing the effective boom length to less than 75% of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height - To minimize spray drift, make applications at a height < 10 feet above the top of the "target plant canopy unless a greater height is required for aircraft safety. Making applications at the lowest height that is safe reduces exposure of droplets to evaporation and wind.

Swath Adjustment - When aerial applications are made with a crosswind, the swath will be displaced downwind. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by the path of the aircraft upwind. Increase swath adjustment or offset distance when conditions favor increased drift potential (higher winds, smaller droplets, etc).

Wind - Drift potential is lowest between wind speeds of 3-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given wind speed. Do not make applications below 3 mph due to variable wind direction and high inversion potential. NOTE: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they may potentially affect spray drift.

Temperature and Humidity - When making applications in 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 make applications during a temperature inversion because 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 low speed and variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common during conditions of limited cloud cover and little to no wind. They often begin to form as the sun sets and may often continue into the morning. The presence of a temperature inversion may be indicated by ground fog. However if fog is not present, the movement of smoke from a ground source or an aircraft smoke generator can also identify inversions. Smoke that remains in layers and moves laterally in a concentrated cloud (under low speed wind conditions) indicates an inversion, while smoke that moves upward and rapidly dissipates indicates good vertical air mixing.

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

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC Drift

If S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC solutions drift into non-target areas, contact with other plants/crops can cause adverse reaction. Initially, adverse crop/plant reaction may be in localized areas, depending on factors such as plant sensitivity to the application solution and spray solution droplet size. Lesions or spots caused by drift may or may not coalesce. The effects of drift will not normally cause lasting effects on plant growth, but may adversely affect the value of fruit or foliage where value is affected by appearance. Where plants are sensitive to S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC and drift is significant, defoliation may result.

Avoid drift of this product/solutions containing this product to non-target areas by taking adequate notice of the prevailing environmental conditions. Use appropriate and accurately calibrated application equipment and utilize treatment procedures that will minimize the risk of drift.

Misapplication of this product where label directions are not followed may result in drift. The applicator/user of this product is solely responsible for any misapplication of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC.

TURF GRASSES

(Including Residential and Institutional Lawns, Athletic Fields, Golf Course Fairways and Roughs and Commercial Sod Farms)

S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC can be used to control broadleaf, grass and sedge weeds in established turfgrasses (seeded, sodded or sprigged). Turf grasses should be established (good root system; uniform stand) tolerant to S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC (see below). A healthy root system is necessary to fill in exposed edges, which are more susceptible to S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC.

Tolerant Turf Grasses

Cool Season Grasses: Apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC at 4 to 8 oz per acre (unless noted) to:

Bentgrass, creeping*	Bluegrass
Fescue Fine** (<i>Festuca rubra</i>)	Kentucky (<i>Poa pratensis</i>)
Fescue, Tall** (<i>Festuca arundinacea</i>)	Bluegrass, Rough*** (<i>Poa trivialis</i>)
Ryegrass, Perennial (<i>Lolium perenne</i>)	

*Apply a maximum of 4 oz S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to creeping bentgrass

** An undesirable plant response can occur if applying S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC to certain varieties of Chewings fine fescue or tall fescue.

Warm Season Grasses: Apply S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC at 8 to 12 oz per acre to:

Bahiagrass*** (<i>Paspalum notatum</i>),	Sheashore Paspalum (<i>Paspalum vaginatum</i>),
Buffalograss (<i>Buchloe dactyloides</i>),	Zoysiagrass*** (<i>Zoysia japonica</i>),
Carpetgrass (<i>Axonopus affinis</i>),	Bermudagrass (<i>Cynodon dactylon</i>),
Centipedegrass (<i>Eremochloa ophoides</i>),	Bermudagrass Hybrids (<i>Cyn bluegrass</i>),
Kikuyugrass (<i>Pennisetum clandestinum</i>),	St. Augustinegrass*** (<i>Stenotaphrum secundatum</i>)

*** St. Augustine grass and some varieties of bahiagrass, rough bluegrass or zoysiagrass, particularly turfgrass that has been stress-weakened can experience temporary leaf surface discoloration (removed upon mowing) upon application of S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC. Chemicals,

certain cultural practices, disease, mechanical exposure and cultivation and weather can all be causes of stress-weakened turf.

Not all varieties or cultivars have been tested with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC. Consult with university or weed management specialists for information on using ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC with specific local varieties or cultivars of turfgrass. Prior to treatment on new turfgrass varieties, test response to ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC by applying to a small area of turfgrass

Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.

Preemergence Weed Control

When applied as indicated on this label, the following weeds will be controlled or suppressed with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC

Summer Annual Weeds - apply in early spring, prior to germination of weed seeds.

Broadleaf Weeds:

Black medic (<i>Meidicago lupulina</i>)	Common purslane (<i>Portulaca oleracea</i>)
Pigweed, redroot (<i>Amaranthus retroflexus</i>)	Pigweed, smooth (<i>Amaranthus hybridus</i>)
Prostrate knotweed (<i>Polygonum aviculare</i>)	Spurge (<i>Euphorbia spp</i>)
Spurge, prostrate (<i>Euphorbia supine</i>)	Spurge, spotted (<i>Euphorbia maculate</i>)

Grassy Weeds:

Barnyardgrass (<i>Echninochloa crusgalli</i>)	Crabgrass, large (<i>Digitaria sanguinalis</i>)
Crabgrass, smooth (<i>Digitaria ischaemum</i>)	Foxtail, green (<i>Setaria viridis</i>)
Foxtail, yellow (<i>Setaria glauca</i>)	Goosegrass (<i>Eleusine indica</i>)

Winter Annual Weeds - apply in late summer or early fall.

Broadleaf Weeds:

Buttercups (<i>Ranunculus spp.</i>)	Carolina geranium (<i>Geranium carolinianum</i>)
Chickweed, common (<i>Stellaria media</i>)	Chickweed, mouseear (<i>Cerastium vulgatum</i>)
Common groundsel (<i>Senecio vulgaris</i>)	Corn Speedwell (<i>Veronica arvensis</i>)
Hairy bittercress (<i>Cardamine hirsute</i>)	Henbit (<i>Lamium amplexicaule</i>)
Knawel (<i>Scieranthus annuus</i>)	Large Hop clover (<i>Trifolium campestre</i>)
Parsley piert (<i>Alchemilla microcarpa</i>)	Spurweed (<i>Solidago pterisperma</i>)
Violet, Johnny-jump-up (<i>Viola rabeinesquii</i>)	

Grassy Weeds:

Annual bluegrass (<i>Poa annua</i>)	Annual ryegrass (<i>Lolium multiflorum</i>)
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Postemergence Weed Control

When applied as indicated on this label, the following weeds in turfgrass will be controlled or suppressed with ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC:

Broad leaf Weeds:

Bedstraw, catchweed (<i>Galium aparine</i>)	Chickweed, mouseear (<i>Cerastium vulgatum</i>)
Bittercress (<i>Cardamine spp.</i>)	Clover (<i>Trifolium spp.</i>)
Buttercup (<i>Ranunculus spp.</i>)	Cudweed (<i>Gnaphalium spp.</i>)
Carpetweed (<i>Mollugo verticillata</i>)	Dock, curly (<i>Rumex crispus</i>)
Beggarweed, Florida (<i>Desmodium illinoense</i>)	Eclipta (<i>Eclipta prostrata</i>)
Black Medic (<i>Medicago lupulina</i>)	Fiddleneck (<i>Amsinckia spp.</i>)
Carolina geranium (<i>Geranium carolinianum</i>)	Galinsoga (<i>Galinsoga ciliata</i>)
Chickweed, common (<i>Stellaria media</i>)	Goldenrod (<i>Solidago spp.</i>)

Groundsel, common (*Senecio vulgaris*)
 Knawel (*Scieranthus annuus*)
 Kochia (*Kochia scoparia*)
 Lawn burweed (*spurweed*) (*Soliva pterosperma*)
 Mallow, common (*Malva neglecta*)
 Parsley piert (*Alchemilla arvensis*)
 Pigweed, smooth (*Amaranthus hybridus*)
 Pineapple weed (*Matricaria matricarioides*)
 Puncture weed (*Tribulus terrestris*)
 Pusley, Florida (*Richardia scabra*)
 Rocket, London (*Sisymbrium irio*)
 Smartweed, PA (*Polygonum pensylvanicum*)
 Speedwell (*Veronica spp.*)
 Spurge, prostrate (*Euphorbia humistrata*)
 Star of Bethlehem (*Omithogalum umbellatum*)
 Violet, wild (*Viola pratincola*)
 Woodsorrel, creeping (*Oxalis corniculata*)
 Cinquefoil (*Potentilla spp.*)
 Copperleaf (*Ascalypha spp.*)
 Dandelion (*Taraxacum officinale*)
 Dollarweed (*Hydrocotyl umbellate*)

Evening primrose (*Oenothera biennis*)
 Filaree (*Erodium spp.*)
 Garlic, wild (*Allium vineale*)
 Ground ivy (*Glechema hederasea*)
 Henbit (*Lamium amplexicaule*)
 Knotweed, prostrate (*Polygonum aviculare*)
 Lambsquarters.common (*Chenopodium album*)
 Lespedeza, common (*Lespedeza striata*)
 Onion, wild (*Allium canadense*)
 Pigweed, redroot (*Amaranthus retroflexus*)
 Pigweed, tumble (*Amaranthus albus*)
 Plantain, buckhorn (*Plantago lanceolata*)
 Purslane, common (*Portulaca oleracea*)
 Red weed (*Melochia corchorifolia*)
 Shepherd's purse (*Capsella bursa pastons*)
 Sorrel, red (*Rumex acetosella*)
 Spurge, annual (*Euphorbia spp.*)
 Spurge, spotted (*Euphorbia maculata*)
 Velvetleaf (*Abutilon theophrasti*)
 Violet, Johnny-jump-up (*Viola rafeinesquii*)
 Woodsorrel, yellow (*Oxalis stricta*)

Grassy Weeds:

Goosegrass (*Eleusine indica*)

Sedges:

Kyllinga, green (*Kyllinga brevifolia*)
 Nutsedge, purple (*Cyperus rotundus*)*
 Sedge, cylindrical (*Cyperus retrorsus*)
 Sedge, Surinam (*Cyperus surinamensis*)

Kyllinga, false green (*Kyllinga gracillima*)
 Nutsedge, yellow (*Cyperus esculentus*)
 Sedge, globe (*Cyperus glubulosus*)
 Sedge, Texas (*Cyperus polystachyos*)

***NOTE:** Split applications give optimum control of purple nutsedge. When actively growing purple nutsedge is evident, apply as indicated below:

Cool season grasses: 2 - 4 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC per acre first application, followed by second application of 4 -6 fl. oz. per acre (do not exceed 8 fl. oz. total on cool season grasses)

Warm season grasses: 6 - 8 fl. oz. ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC per acre first application, followed by second application of 4-6 fl. oz. per acre (do not exceed 12 fl. oz. total on warm season grasses)

Observe maximum rate per acre based on turf variety, as indicated above.

Allow 35 days between applications

Application Instructions

Apply amount of ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC indicated above to turfgrass to control or suppress indicated weeds.

Best control is achieved with grassy weeds when applied with grasses are actively growing and small (pre tiller stage). Application rates lower than 12 fl. oz/ acre will control grasses for 60 days.

Optimum control of broadleaf weeds will occur if application is made shortly after weed emergence.

Applications to sprigged, overseeded or reseeded areas: Turfgrasses can be sprigged, overseeded or reseeded after ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC applications. Best results are obtained from waiting at least 1 month after ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC

application before sprigging, overseeding or reseeding. If slight plant response can be tolerated, overseeding of Bermudagrass with perennial ryegrass can be done between 2 to 4 weeks after ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ application.

Observing proper fertilization, irrigation and soil cultivating practices, and using mechanical or power seeding equipment will give optimum overseeding or reseeding results.

Optimum weed control is obtained with thorough spray coverage.

Tank Mixes and Adjuvants

Tank mixing with other pesticides registered for use on turfgrass can extend the weed control range and enhance efficacy of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ for both preemergence and postemergence control. Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Use of adjuvants or surfactants with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ can cause short-term discoloration of some turf species.

SynTelus, LLC Volantis, LLC does not advise use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with surfactants or adjuvants.

Important

- Establish sod production areas for three (3) months before initial treatment with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~
- Temporary undesirable effects can be caused by the use of surfactants with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~. Perform an on-site evaluation of surfactants for effects to turfgrasses and mixture compatibility prior to use.
- Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application.
- Pre harvest interval is 3 months
- Do not apply to ornamental beds or landscape ornamental plants.
- Do not feed forage or allow grazing of turf treated with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~
- Use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ with surfactants is not advised unless surfactant / sulfentrazone combinations have previously proven to be safe to a particular turf variety
- Use of ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ mixed with or applied within 7 days of herbicides containing the active ingredient trinexapac-ethyl can result in temporary turfgrass discoloration. Applying ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ and trinexapac-ethyl herbicides 7 or more days apart decreases possibility of discoloration
- Do not apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ to tees or putting greens on golf courses

NON-CROP USES

For use in Railroad, Highway, Roadside, Pipeline and Utility Rights of Way, Industrial Areas, Fence Rows, and Other Listed Non-Crop Sites

Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~ to control susceptible weeds, maintain bare ground and complete vegetation control, and for residual control of germinating weeds in noncropland.

When applied as indicated on this label, the following weeds will be controlled with ~~S308.1 SULFENTRAZONE 4 HERBICIDEAQUESTA 4 SC~~:

Beggarweed, Florida (*Desmodium tortuosum*)

Crabgrass species (*Digitaria spp.*)

Dayflower, Virginia (*Commelina virginica*)

Groundcherry, clammy (seedling) (*Physallis heterophylla*)

ALS/Triazine resistant Kochia (*Kochia scoparia*)

Milkweed, honeysuckle (*Ampelamus albidus*)

Nightshade species (*Solanum spp.*)

Chickweed, common (*Stellaria media*)

Daisy, American (*Coreopsis grandiflora*)

Fixweed (*Descurainia sophia*)

Jimsonweed (*Datura stramonium*)

Lettuce, wild (*Lactuca virosa*)

Morningglory species (*Ipomoea spp.*)

Palmer amaranth- (*Amaranthus palmeri*)

Pigweed, redroot (<i>Amaranthus retroflexus</i>)	Thistle, Russian (<i>Salsola iberica</i>)
Waterhemp, common (<i>Amaranthus rudis</i>)	Carpetweed (<i>Mollugo verticillata</i>)
Copperleaf Hophornbeam (<i>Acalypha ostryifolia</i>)	Croton, tropic (<i>Croton glandulosus</i>)
Dayflower, common (<i>Commelina communis</i>)	Dock, curly (<i>Rumex crispus</i>)
Galinsoga, hairy (<i>Galinsoga ciliata</i>)	Groundcherry, cutleaf (<i>Physalis angulata</i>)
Kochia (<i>Kochia scoparia</i>)	Lambsquarter, common (<i>Chenopodium album</i>)
Mallow, common (<i>Malva neglecta</i>)	Mexicanweed (<i>Caperonia castanifolia</i>)
Mustard species (<i>Brassica spp.</i>)	Nutsedge species (<i>Cyperus spp.</i>)
Pigweed, smooth (<i>Amaranthus hybridus</i>)	Texasweed (<i>Caperonia palustris</i>)
Waterhemp, tall (<i>Amaranthus tuberculatus</i>)	

See **Listed Weed Species** section of this label for information on additional weeds.

Application can be made to non-crop use sites including:

- **Railroad Rights-of-Way** - including railroad yards, railroad crossings and railroad bridge abutments
- **Highway, Roadside, Pipeline and Utility Rights-Of-Way** - including, but not limited to guardrails, road shoulders, electric utility substations, pipeline pumping stations, around electric transmission towers, around distribution line poles and other areas where complete vegetation control is needed
- **Industrial Areas, Fence Rows and Other Non-Crop Sites** - including production facilities, tank farms, storage areas, parking areas, lumber yards, airports, military installations, along fence rows and similar non crop sites

Application Rates

Apply 8 - 12 fl. oz. / acre

Use higher rates:

- To extend length of control
- On soils with fine soil textures
- On soils with more than 2% organic matter

Do not use on soils with less than 1% organic matter (sandy soils)

Application Instructions

Apply ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC as a broadcast treatment at rates indicated, in enough water to obtain good coverage and to make at least 10 gallons finished spray per acre.

In order to assure appropriate amounts of moisture for activation of product, best results will be obtained if ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC is applied in early spring, late summer or fall.

Make application with a boom and nozzle sprayer or boomless application system. Make application at spray pressure of 25 psi or below, unless the manufacturer specifies otherwise. Achieve best possible spray delivery and coverage with minimum amounts of fine spray droplets by utilizing properly chosen and adjusted nozzles, spray tips, and screens.

Applications only to railroad rights of way can be made by helicopter.

Tank Mixes

Tank mix ~~S308.1 SULFENTRAZONE 4 HERBICIDE~~AQUESTA 4 SC with burndown herbicides (such as 2,4-D, dicamba, diquat, glyphosate, glyphosate trimesium, etc.). Read and follow the label of each tank mix product used for precautionary statements, directions for use, rates and timings, and other restrictions.

Adjuvants recommended for tank mix partner can be used.

Important

- Do not apply more than 0.375 lbs sulfentrazone (12.0 fl. oz. product) per acre per 12 month period. The 12 month period starts at the point of first application
- Do not use on soils with less than 1 % organic matter (sandy soils)
- Applications by helicopter can only be made to railroad rights of way

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Do not use or store around the home.

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.

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

CONTAINER HANDLING: 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.

CONTAINER HANDLING: Refillable container.

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. Then offer for recycling if available or reconditioning if appropriate or puncture and dispose of in a sanitary landfill, or by incineration, or by other procedures approved by state and local authorities.

Steps to be taken in case material is released or spilled:

In case of release or spill, isolate area and keep unprotected persons or animals away from area. Dike and contain the spill with inert material (sand, earth, cat litter or commercial clay, etc.) and transfer liquid and solid diking material to separate containers for disposal. Remove contaminated clothing and wash affected skin areas with soap and water. Wash clothing before re-use. Keep the spill out of all sewers and open bodies of water.

LIMITATION OF WARRANTY AND LIABILITY

IMPORTANT: READ BEFORE USE. Read the entire Directions for Use, Conditions of Warranties and Limitations of Liability before using this product. If these terms and conditions are not acceptable, return the unopened product container at once. By using this product, user or buyer accepts the following Disclaimer of Warranties and Limitations of Liability.

CONDITIONS: The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Ineffectiveness, injury, and other unintended consequences may result because of such factors as manner of use or application (including misuse), the presence of other materials, weather conditions, and other unknown factors, all of which are beyond the control of Volantis, LLC. All such risks shall be assumed by the user or buyer.

DISCLAIMER OF WARRANTIES: To the extent consistent with applicable law, Volantis, LLC makes no other warranties, express or implied, of merchantability or of fitness for a particular purpose or otherwise, that extend beyond statements on this label.

LIMITATIONS OF LIABILITY: To the extent consistent with applicable law, neither Volantis, LLC, the manufacturer, nor the Seller shall be liable for any indirect, special, incidental or consequential damages resulting from the use, handling, application, storage, or disposal of this product. To the extent consistent with applicable law, the exclusive remedy of the user or buyer for any and

all losses, injuries or damages resulting from the use, handling, application, or storage of this product, whether in contract, warranty, tort, negligence, strict liability or otherwise, shall not exceed the purchase price paid.

Warranty and Disclaimer Statement

~~The directions for use of this product are believed to be adequate and must be followed carefully. However, it is impossible to eliminate all risks associated with the use of this product. Such risks may arise from weather conditions, soil factors, off-target movement, unconventional farming techniques, the presence of other materials, the manner of use or application, or other unknown factors, all of which are beyond the control of SynTelus, LLC (SynTelus) can cause crop injury, injury to non-target crops or plants, ineffectiveness of the product, or other unintended consequences. To the extent consistent with applicable law, all such risks shall be assumed by the user or buyer.~~

~~SynTelus warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks described above, when used in accordance with the Directions for Use under normal conditions. This warranty does not extend to the use of this product contrary to label instructions or under conditions not reasonably foreseeable to SynTelus, and is subject to the inherent risks described above.~~

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~~S308.1 Sulfentrazone 4 Herbicide~~Aquesta 4 SC is not manufactured, or distributed by FMC Corporation, seller of Spartan® 4 F Herbicide.

[EPA Approval Date]