279-3452

9/30/2013



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, D.C. 20460

> OFFICE OF CHEMICAL SAFETY AND POLLUTION PREVENTION

Ms. Melinda Bowman FMC Corporation 1735 Market Street Philadelphia, PA 19103

SEP 3 0 2013

Subject: Label amendment to add use directions for ornamentals previously approved for a similar EPA-registered sulfentrazone product Product Name: Sulfentrazone CA Herbicide EPA Reg. No: 279-3452 Decision Number: 480563

Dear Ms. Bowman:

The labeling referred to above, submitted in connection with registration in accordance with FIFRA section 3(C)(7)(A), as amended, is acceptable, provided that you submit and/or cite all data required for reregistration/registration review of your product under FIFRA when the Agency requires all registrants of similar products to submit such data. You must comply with any outstanding data requirements of **DCI ID# GDCI-129081-883** issued to FMC Corporation on 9/28/2010 as well as the requirement for a 28-day inhalation study for sulfentrazone issued to FMC Corporation on 9/28/2012. If you have questions or concerns regarding registration review, please contact the Chemical Review Manager, Christina Scheltema at scheltema.christina@epa.gov.

A stamped copy of your label is enclosed for your records. This label supersedes all previously accepted labels. You must submit one (1) copy of the final printed label before you release the product for shipment. Products released for shipment after eighteen (18) months from the date of this letter must bear the new revised label. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA §6(e). Your release for shipment of the product constitutes acceptance of these conditions. If you have questions or concerns regarding this letter, please contact Beth Benbow at (703) 347-8072 or email at benbow.bethany@epa.gov.

Sincerely,

Kathryn V. Montague Product Manager 23 Herbicide Branch Registration Division (7505P)

Sulfentrazone CA Herbicide

For Use in Railroad, Highway, Roadside, Pipeline and Utility Rights-of-Way, Industrial Areas, Fence Rows, and Other Non-crop Sites. Can Also Be Used For Selective Weed Control in Turf Sites Including Residential and Institutional Lawns, Athletic Fields, Commercial Sod Farms, Golf Course Fairways and Roughs. Also for use as Selective Weed Control in Landscape, Container and Field Grown Ornamentals.

Intended For Use Only by Individuals/Firms Certified and/or Licensed as Pesticide Applicators

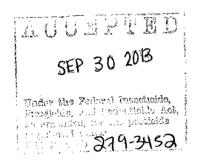
EPA Reg. No. 279-3452	EPA Est. 279-
Active Ingredient:	By Wt.
Sulfentrazone	
Other Ingredients:	
Ũ	100.0%

Contains 4 pounds of active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN

CAUTION

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







FIRST AID

if Inhaled

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

If on Skin or Clothing

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

If in Eyes

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

If Swallowed

Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

HOTLINE NUMBER

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

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.

See other sections for precautionary information.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals Caution

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

Personal Protective Equipment (PPE)

Applicators and other handlers must wear: long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, and shoes plus socks.

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

User Safety Recommendations:

Users should:

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

Environmental Hazards

This pesticide is toxic to non-target plants and aquatic invertebrates. This product may contaminate water through drift of spray in wind or via runoff events. Use care when applying in areas adjacent to any body of water.

Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not apply when weather conditions favor drift from targel _____a. Do not contaminate water when disposing of equipment washwaters or rinsate.

<u>Groundwater advisory</u>: 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.

<u>Surface water advisory</u>: 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.

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 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, chemicalresistant gloves made of any waterproof material, and 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.

Re-entry Statement: Do not allow people (other than applicator) or pets on treatment area during application. Do not enter treatment area until spray has dried.

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.

In Case of Spill

In case of spill, avoid contact, isolate area and keep out animals and unprotected persons. Confine spills. Call CHEMTREC (Transportation and spills): (800) 424-9300.

To Confine Spill

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

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

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

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

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

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

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

To the extent consistent with applicable law, FMC or seller shall not be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF FMC AND SELLER FOR ANY AND ALL CLAIMS. LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS Data 2 PRODUCT, SHALL BE THE RETURN OF The PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF FMC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

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

RESISTANCE MANAGEMENT

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

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

CALIFORNIA ONLY SPECIFIC RESTRICTIONS ON APPLICATIONS OF SULFENTRAZONE CA HERBICIDE

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

(a) 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 Product Application Instructions, at application rates that do not cause surface water runoff from the treated property or to wells on the treated property; or

(b) 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

(c) Retention of runoff in a holding area off the field. For six months following the application, all runoff shall be channeled to a holding area off the application site, under the control of the property operator, that is designed to retain all irregization runoff and all precipitation on, and drainage through, the treated field and all other areas draining into 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

(d) 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 Product 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 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 application of the pesticide with the exception of the addition of adequate moisture that is required for herbicidal activation following application as described under Product 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

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internet at <u>www.cdpi..a.gov/docs/emon/</u> grndwtr/gwp_regs.htm.

PRODUCT INFORMATION

SULFENTRAZONE CA HERBICIDE is a selective soil applied herbicide for the control of certain broadleaf weeds, grasses and sedges. When applied according to directions, it will provide control of susceptible species. SULFENTRAZONE CA HERBICIDE is formulated as flowable (suspension concentrate) containing four pounds of the active ingredient sulfentrazone per gallon.

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The mode of action of SULFENTRAZONE CA HERBICIDE involves uptake by weed roots and shoots. Observe all instructions, mixing directions, application restrictions and precautions, and other label information of each product when tank mixing with SULFENTRAZONE CA HERBICIDE.

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

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well, are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment.

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

PRODUCT APPLICATION INFORMATION

Utilize a boomless application system or a boom and nozzle sprayer equipped with the appropriate nozzles, spray tips and screens and adjusted to provide optimum spray distribution and coverage at the appropriate operating pressures. Utilize nozzles and boomless sprayer configurations which produce minimal amounts of fine spray droplets. Do not exceed 25 psi spray pressure unless otherwise required by the manufacturer of drift reducing nozzles or boomless application systems. Apply a minimum of 10 gallons of finished spray per acre.

Water must be used as the carrier for this product when applied alone, or when tank mixed with other herbicides.

Avoid letting this product sit overnight as settling of product and difficulty of resuspending may occur.

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

SPRAY TANK PREPARATION

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding SULFENTRAZONE CA HERBICIDE to the tank.

Mixing Instructions

SULFENTRAZONE CA HERBICIDE may be tank mixed with other herbicides for control of additional weed species. Mixtures with some other herbicides have not been tested. Conduct an appropriate compatibility test prior to tank mixing with other products. Follow all precautions and restrictions on the tank mix partner label.

For best results, fill spray tank with one half of the volume of clean water needed for the area to be treated. Start agitation system. Slowly add SULFENTRAZONE CA HERBICIDE to the spray tank. Complete filling the spray tank to the desired level. Continuous spray tank agitation is required at all times to maintain a uniform spray solution. Make sure SULFENTRAZONE CA HERBICIDE is thoroughly mixed before application or before adding another product to the spray tank.

For tank mixtures with other herbicides, a jar test should be conducted to ensure product compatibility before full-scale mixing. Provided the jar

test indicates the mixture to be compatible, pare the tank mixture as follows: Fill the tank one half full with water. With agitator operating, add the recommended amounts of ingredients using the following order: dry granules first, liquid suspensions (flowables) second. Add EC products followed by water soluble products to tank as agitation continues and precautions for the tank mixture herbicides must be followed.

Use the SULFENTRAZONE CA HERBICIDE mixture immediately after mixing. Do not store the sprayer overnight or for any extended period of time with the Sulfentrazone spray mixture remaining in the tank. Premixing SULFENTRAZONE CA HERBICIDE spray solutions in nurse tanks is not recommended.

If SULFENTRAZONE CA HERBICIDE is tank-mixed with other herbicides, all additional directions, restrictions and precautions for the tank mixture herbicides must be followed.

SPRAY DRIFT MANAGEMENT

Avoiding spray drift at the application site is the responsibility of the applicator. 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 drift movement from aerial applications. These requirements do not apply to forestry applications, public health uses or to applications using dry formulations.

1. The distance of the outer most nozzles on the boom must not exceed $\frac{3}{4}$ the length of the wingspan or rotor.

2. Nozzles must always point backward and parallel with the air stream and never be pointed downwards more than 45 degrees. Where states have more stringent regulations, they should be observed.

The applicator should be familiar with and take into account the information covered in the <u>Aerial Drift Reduction Advisory Information</u>.

Importance of 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 and control. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see Wind, Temperature and Humidity, and Temperature Inversion section of this label).

Controlling Droplet Size

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

Pressure: Use the lower spray pressures recommended for the nozzle. Higher pressure reduces droplet size and does not improve canopy penetration. When higher flow rates are needed, use higher flow rate nozzles instead of increasing pressure.

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

Nozzle Orientation: Orienting nozzles so that the spray is released backwards, parallel to the airstream will produce larger droplets than other orientations. Significant deflection from the 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. Solid stream nozzles oriented straight back produce larger droplets than other nozzle types.

Boom Height: Making applications at the lowest height that produces a uniform spray pattern will reduce exposure of droplets to evaporation and wind.

Boom Length: For some use patterns, reducing the effective boom length to less than $\frac{3}{4}$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application Height (by air): Applications should not be made at a height greater than 10 feet above the top of the largest plants 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 applications are made with a crosswind toward sensitive areas, the swath will be displaced downwind. Therefore, on the up and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase, with increasing drift potential (higher wind, smaller drops, etc.). For ground applications, when applications are made with a crosswind towards sensitive areas, the application should leave a buffer to avoid off-site movement.

Wind

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Drift potential is lowe, between wind speeds of 2-10 mph. However, many factors, including droplet size and equipment type determine drift potential at any given speed. Application should be avoided below 2 mph due to variable wind direction and high inversion potential

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Note: Local terrain can influence wind patterns. Every applicator should be familiar with local wind patterns and how they affect 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

Applications should not occur 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 light variable winds common during inversions. Temperature inversions are characterized by increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that layers and moves laterally in a concentrated cloud (under low wind conditions) indicates an inversion, while smoke that moves upwards and rapidly dissipates indicates good vertical air mixing.

Sensitive Areas

The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target crops) is minimal (e.g, when wind is blowing away from the sensitive areas).

Drift Control Additives

Drift control additives may be used with all spray equipment with the exception of controlled droplet applicators. When a drift control additive is used, read and carefully observe cautionary statements and all other information on the label. It is recommended that additives be certified by the Chemical Producers and Distributors Association (CPDA).

Sprayer Equipment Clean-Out

After spraying SULFENTRAZONE CA HERBICIDE and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

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

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

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

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

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

APPLICATION INSTRUCTIONS

Railroad Rights-of-Way

SULFENTRAZONE CA HERBICIDE can be used to control many weeds and maintain bare ground on railroad rights-of-way, including railroad yards, railroad crossings and railroad bridge abutments.

Highway, Roadside, Pipeline and Utility Rights-of-Way

SULFENTRAZONE CA HERBICIDE can be used to control many weeds and maintain bare ground in highway, roadside, pipeline and utility rightsof-way, Such areas would include, but are not limited to, guard rails, road shoulders, electric utility substations, pipeline pumping stations, around electric transmission towers, around distribution line poles and in other areas where complete vegetation control is desired.

Industrial Areas, Fence Rows and Other Non-crop Sites

SULFENTRAZONE CA HERBICIDE controls weeds and maintains bare ground in industrial areas including production facilities, tank farms, storage areas, parking areas, lumber yards, airports, military installations, along fence rows, and in similar non-crop sites where complete vegetation control is needed.

Method and Rate of Application

For residual control of germinating weeds in non-crop land, apply this product as a broadcast treatment at 8 to 12 fluid ounces (0.25 to 0.375 pounds of active ingredient) per acre by ground in a minimum of 10 gallons of spray solution per acre. Applications may be made by helicopter on railroad rights-of-way only.

DO NOT apply SULFENTRAZONE CA HERBICIDE to soils classified as sand with less than 1% Organic Matter.

Use labeled rates of burndown herbicides such as glyphosate, glyphosate - trimesium, diquat, 2,4-D, dicamba,etc. as tank mixtures with SULFENTRAZONE CA HERBICIDE. Use recommended adjuvants for the herbicide tank mix partner. For all products used in tank mixes, refer to the specific product labels for all restrictions on tank mixing and observe all label precautions, instructions and rotational cropping restrictions.

Timing

For best results, apply SULFENTRAZONE CA HERBICIDE alone or in combination with other herbicides for residual control of weeds in late summer, fall, or early spring to insure adequate moisture for soil activation.

Weeds Controlled

This product, when applied at 8 to 12 fluid ounces** per acre, will control the following weeds in non-cropland areas. Use the higher labeled rates to extend length of control. Use the higher rates on sites with fine soil textures and on sites with more than 2% organic matter.

Weeds C	ontrolled
Common Name	Scientific Name
Barnyardgrass	Echninochloa crusgalli
Beggarweed, Florida	Desmodium tortuosum
Carpetweed	Mollugo verticillata
Chickweed, common	Stellaria media
Copperleaf, Hophornbeam	Acalypha ostryifolia
Crabgrass species	Digitaria spp.
Croton, tropic	Croton glandulosus
Cudweed	Gnaphalium spp.
Daisy, American	Coreopsis grandiflora
Dayflower, common	Commelina communis
Dayflower, Virginia	Commelina virginica
Dock, curly	Rumex crispus
Fiddleneck	Amsinckia spp.
Foxtail, green	Setaria viridis
Foxtail, yellow	Setaria glauca
Fixweed	Descurainia Sophia
Galinsoga, hairy	Galinsoga ciliata
Goosegrass	Eleusine indica
Groundcherry, clammy (seedling)	Physallis heterophylla
Groundcherry, cutleaf	Physalis angulata
Jimsonweed	Datura stramonium
Kochia	Kochia scoparia
Knotweed, prostrate	Polygonum aviculare
ALS/Triazene Resistant Kochia	Kochia scoparia
Lanahanuartan assessan	Chenopodium album
Lambsquarter, common	
Lettuce, wild Mallow, common	Lactuca virosa

Milkweed, honeyvine	Ampelamus albidus
Mexicanweed	Caperonia castanifolia
Morningglory species	lpomoea spp.
Mustard species	Brassica spp.
Mustard, tumble	Sisybrium altissimum
Nightshade species	Solanum spp.
Nutsedge species	Cyperus spp
Orchardgrass	Dactylis Glomerata
Palmer amaranth	Amaranthus palmeri
Pigweed, smooth	Amaranthus hybridus
Pigweed, redroot	Amaranthus retroflexus
Pineapple weed	Matricaria matricarioides
Puncture weed	Tribulus terrestris
Purslane, common	Portulaca oleracea
Rocket, London	Sisymbrium irio
Spurge, (annuals)	Euphorbia spp.
Texasweed	Caperonia palustrus
Thistle, Russian	Salsola iberica
Toadflax, yellow	Linaria vulgaris
Waterhemp, tall	Amaranthus tuberculatus
Waterhemp, common	Amaranthus rudis

**Do not apply more than 12 fluid ounces (0.375 pound of active ingredient) per acre of SULFENTRAZONE CA HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SULFENTRAZONE CA HERBICIDE application.

Turf Use Instructions

Product Information

SULFENTRAZONE CA HERBICIDE is a selective preemergence and post emergence herbicide which controls annual grasses and broadleaf weeds in established turf areas including, but not limited to, residential and institutional lawns, athletic fields, commercial sod farms, golf course fairways and golf course roughs. To broaden the spectrum for preemergence control or suppression of annual grasses and/or broadleaf weeds, SULFENTRAZONE CA HERBICIDE should be tank mixed with an EPA registered annual grass herbicide. Observe all instructions, mixing directions, application precautions and other label information of each product when tank mixing with SULFENTRAZONE CA HERBICIDE.

SULFENTRAZONE CA HERBICIDE is formulated as a flowable (suspension concentrate) containing 4 lbs of active ingredient per gallon. The mode of action of SULFENTRAZONE CA HERBICIDE involves uptake by both weed roots and shoots. Preemergence application of SULFENTRAZONE CA HERBICIDE requires soil moisture for activation. The amount of soil moisture required for activation following application depends on existing soil moisture, organic matter content and soil texture. The most effective preemergence weed control will be obtained when SULFENTRAZONE CA HERBICIDE is activated by at least 0.5 inches of rainfall or irrigation within 7 days after application and prior to weed seed germination.

Mixing and Application Instructions Product handling instructions

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

Operations that involve mixing, loading, rinsing or washing of this product into or from pesticide handling or application equipment or containers within 50 feet of any well, are prohibited unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rainwater that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means the pad must be self contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment capacity of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specific minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing/loading site. States may have in effect additional requirements regarding wellhead setbacks and operational containment. Product must be used in a manner which with prevent back siphoning in wells, spills or improper disposal of excess pesticide, spray mixtures or rinsates

SPRAY TANK PREPARATION

It is important that spray equipment is clean and free of existing pesticide deposits before using this product. Follow the spray tank clean out procedures specified on the label of product previously applied before adding SULFENTRAZONE CA HERBICIDE to the tank.

SULFENTRAZONE CA HERBICIDE is a suspension concentrate intended for dilution with water. In certain applications, liquid fertilizer may replace water as diluent.

MIXING WITH WATER

For best results, fill spray tank with one fourth of the volume of clean water needed for the area to be treated. Start the agitation system and add SULFENTRAZONE CA_HERBICIDE to the tank. Make sure SULFENTRAZONE CA HERBICIDE is thoroughly mixed application or before adding another product to the spray tank. before

USE OF SURFACTANTS

Temporary discoloration of some turf types may result from use of surfactants or adjuvants with SULFENTRAZONE CA HERBICIDE. High temperatures and high relative humidity may increase the risk of temporary discoloration. Use of surfactants is not recommended, unless previous experience has demonstrated combinations with surfactant to be physically compatible and noninjurious to the grass type in question.

MIXING WITH LIQUID FERTILIZERS

Utilize local recommendations for sources and rates of fertilizer and refer to mixing directions on the fertilizer labels (e.g. UAN or urea solutions). Determine the compatibility of this product with the desired fluid fertilizer by mixing small proportional quantities in advance (See the "TANK MIXTURES COMPATIBILITY" section below)

TANK MIXTURES COMPATIBILITY

SULFENTRAZONE CA HERBICIDE is believed to be compatible with most herbicides, fungicides, insecticides, growth regulators, liquid fertilizers and spray adjuvants commonly used in turf and ornamental plant management. However, when preparing a new tank mix conduct an appropriate compatibility test by mixing proportional amounts of all spray ingredients in a test vessel (jar) prior to tank mixing with other products. Shake the mixture vigorously and allow it to stand for five to ten minutes. Rapid precipitation of the ingredients and failure to re-suspend when shaken indicates that the mixture is incompatible and should not be Provided the jar test indicates the mixture to be compatible, applied. prepare the tank mixture as follows: Fill the tank one fourth full with water. With the agitator operating, add the recommended amounts of ingredients using the following order: dry granules first, and liquid suspensions (flowables) second. As the agitation continues and the tank is filled with water add ÉC products third followed by the addition of water soluble products.

Read and observe mixing instructions of all tank mix partners. Also read each product's label for Directions for Use, Precautionary Statements and Restrictions and Limitations. The most restrictive labeling applies in all tank mixtures. No label dosage rate should be exceeded. Tank mixture recommendations are for use only in states where the companion products and application site are registered. In addition, certain states or economical regions may have exterible addition. certain states or geographical regions may have established dosage rate limitations. Consult your state Pesticide Control Agency for additional information regarding the maximum use rates.

Use SULFENTRAZONE CA HERBICIDE spray mixture immediately after mixing. Do not store the mixture.

Ground Equipment

Power sprayers: Uniform and accurate spray coverage requires proper calibration and operation of spray equipment. The use of marker dyes or foams can improve application accuracy. Boom sprayers equipped with appropriate flat fan nozzles, tips and screens are ideal for broadcast applications. Power sprayers fitted with spray wand/gun may also be used for broadcast application after careful calibration by the applicator. Power sprayers fitted with spray wand/gun are suitable for spot treatments

Hand operated sprayers: Backpack and compression sprayers are appropriate for small turfgrass areas and spot treatments. Wands fitted with a flat fan nozzle tip should be held stationary at the proper height during application. A side to side or swinging arm motion can result in uneven coverage.

Apply this product in a sufficient volume of carrier solution to provide a uniform spray distribution. Spray volumes of 20 - 175 gallons per acre (0.5 to 4.0 gal/1,000 sq ft) with spray pressures adjusted to 20 - 40 psi are appropriate. Apply the higher spray volumes for dense weed populations.

Sprayer Equipment Clean-Out After spraying SULFENTRAZONE CA HERBICIDE and before using sprayer equipment for any other applications, the sprayer must be thoroughly cleaned using the following procedure:

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

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

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

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

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

Weed Control in Turfgrasses

Use Precautions for Turf Use

Turfgrass Safety

This product may be used on seeded, sodded or sprigged turgrasses that are well established. First application of this product can be made a uniform stand with a good root system. Turgrass injury could result from application of this product on turfgrass that is not well established or has been weakened by stresses such as unfavorable weather conditions, disease, chemical or mechanical influences.

When applied as directed under the conditions described, the CA HERBICIDE at the recommended use rates in a range from 0.125 to 0.375 lb ai/acre (4 to 12 fl oz/acre or 0.092 to 0.275 fl oz/1,000 sq ft).

Table 1. Tolerant grasses

Grass Type*		imum Use gle Applie	
Cool Season Grasses	Fluid ounces per acre	lb ai/A	Fluid ounces per 1000 sq ft
Bentgrass, creeping (Agrostis sp.)	4	0.125	0.092
Bluegrass, Kentucky (<i>Poa pratensis</i>) Bluegrass, Rough ² (<i>Poa trivialis</i>) Fescue, fine ¹ (<i>Festuca rubra</i>) Fescue, tall ¹ (<i>Festuca arundinacea</i>) Ryegrass, perennial (<i>Lolium perenne</i>)	4 - 8	0.125 - 0.25	0.092 - 0.18
Warm Season Grasses			
Bahiagrass ² (Paspalum notatum) Bermudagrass (Cynodon dactylon) & hybrids Buffalograss (Buchloe dactyloides) Carpetgrass (Axonopus affinis) Centipedegrass (Eremochloa ophuiroides) Kikuyugrass (Pennisetum clandestinum) Seashore Paspalum (Paspalum vaginatum) St.Augustinegrass (Stenotaphrum secundatum) ² Zoysiagrass (Zoysia japonica) ²	8 - 12	0.25 - 0.375	0.18 - 0.275

*Do not apply more than 12 fluid ounces (0.375 pound of active ingredient) per acre of SULFENTRAZONE CA HERBICIDE per twelve-month period. The twelve-month period is considered to begin upon the initial SULFENTRAZONE CA HERBICIDE application.

Use of this product on certain cultivars of Chewings Fescue Fine Fescue or Tall Fescue cultivars may result in undesirable injury.

2. SULFENTRAZONE CA HERBICIDE application may cause temporary discoloration to exposed leaf surfaces on St. Augustinegrass and certain cultivars of zoysiagrass bahiagrass, or rough bluegrass. Treated turfgrass will recover with new growth. Discolored leaf tissue will be removed with mowing. To reduce potential for discoloration, do not apply SULFENTRAZONE CA HERBICIDE on turfgrass that is weakened by weather, mechanical, chemical, disease or other related stress. Maintain proper cultural practices such as adequate moisture and fertility levels to promote healthy turf growth.

*SULFENTRAZONE CA HERBICIDE has demonstrated tolerance on both cool and warm season turfgrasses. However, not all varieties have been evaluated. Turfgrass managers desiring to treat newly released varieties should first apply SULFENTRAZONE CA HERBICIDE to a small area prior to treatment of larger areas.

Application to reseeded, overseeded or sprigged areas:

Reseeding, overseeding or sprigging of treated areas within one (1) month after application of this product could inhibit the establishment of desirable turfgrasses. Overseeding of bermudagrass with perennial ryegrass at two (2) to four (4) weeks after an application can be done if slight injury to perennial ryegrass can be tolerated.

Best results are obtained for reseeding or overseeding when mechanical or power seeding equipment (slit seeders) are used to give good seed to soil contact and proper soil cultivation, irrigation and fertilization practices are followed.

Sod Production:

This product may be applied to established sod. Allow sod to establish a good root system, a uniform stand and to fill in the exposed edges. It is recommended that sod be established for at least three (3) months before an application of SULFENTRAZONE CA HERBICIDE. Do not apply this product within three (3) months of harvest.

Other Use Restrictions and Precautions:

Do not apply to golf course putting greens or tees.

Do not use on turfgrasses other than those listed on this label.

Do not apply with surfactants unless previous experience has demonstrated combinations with surfactant to be physically compatible and non-injurious to the grass type in question.

Do not graze or feed livestock forage cut from areas treated with SULFENTRAZONE CA HERBICIDE.

Do not apply directly to landscape ornamental foliage or to ornamental beds containing dormant bulbs or non-woody perennials.

Temporary turfgrass discoloration has been observed when a Primo-type plant growth regulator has been either tank-mixed or applied within 7 days of a SULFENTRAZONE CA HERBICIDE application. It is recommended that Primo-type plant growth regulator applications be made 7 days prior to, or after SULFENTRAZONE CA HERBICIDE application to reduce risk of turfgrass discoloration.

PREEMERGENCE CONTROL OF ANNUAL GRASSES AND BROADLEAF WEEDS

Control of Summer Annual Weeds:

Apply SULFENTRAZONE CA HERBICIDE at the application rate for the turf species being managed (4 to 12 fl oz/acre or 0.092 to 0.275 fl oz/1,000 sq ft) prior to weed seed germination in early spring. Applications in early spring will control or suppress the following summer annuals:

Summer annuais.	
Black medic	(Medicago lupulina)
Common purslane	(Portulaca oleracea)
Pigweed, Redroot	(Amaranthus retroflexus)
Pigweed, Smooth	(Amaranthus hybridus)
Prostrate knotweed	(Polygonum aviculare)
Spurge	(Euphorbia spp.)
Prostrate spurge	(Éuphorbia supina)
Spotted spurge	(Euphorbia maculata)
Barnyardgrass	(Echninochloa crusgalli)
Crabgrass, large	(Digitraria sanguinalis)
Crabgrass, smooth	(Digitaria ischaemum)
Foxtail, green	(Setaria viridis)
Foxtail, yellow	(Setaria glauca)
Goosegrass	(Eleusine indica)

Control of Winter Annual Weeds:

Apply SULFENTRAZONE CA HERBICIDE at the application rate for the turf species being managed (4 to 12 fl oz /acre or 0.092 to 0.275 fl oz/1,000 sq ft) in late summer or early fall to control or suppress the following winter annual weeds:

Buttercups	(Ranunculus spp.)
Carolina geranium	(Geranium carolinianum)
Common chickweed	(Stellaria media)
Common groundsel	(Senecio vulgaris)
Corn Speedwell	(Veronica arvensis)
Hairy bittercress	(Cardamine hirsuta)
Henbit	(Lamium amplexicaule)
Johnnyjumpup violet	(Viola rafeinesquii)
Knawel	(Scleranthus annuus)
Large hop clover	(Trifolium campestre)
Mouseear chickweed	(Cerastium vulgatum)
Parsley-piert	(Alchemilla microcarpa)
Spurweed	(Soliva pterosperma)
Annual bluegrass	(Poa annua)
Annual ryegrass	(Lolium multiflorum)

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To broaden the specksum for preemergence control or suppression of annual grasses and/or broadleaf weeds, SULFENTRAZONE CA HERBICIDE can be tank mixed with an EPA registered annual grass herbicide. Applications in combination with prodiamine, pendimethalin, dithiopyr or oxadiazon will provide broad spectrum control of the weeds listed above. Read the label recommendations of the tank mix partner to determine grass species safety, use rate and application procedures. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Read and follow the "TANK MIXTURES COMPATIBILITY" section of this label for instructions on how to determine the compatibility of tank mixtures.

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POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS

SULFENTRAZONE CA HERBICIDE will control or suppress the weeds listed below when applied alone shortly after weeds have emerged. Apply SULFENTRAZONE CA HERBICIDE at rates from 4 to 12 fl oz/acre (0.092 to 0.275 fl oz/1,000 sq ft). Do not exceed the application rate specified for the turfgrass species in Table 1. To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 2, SULFENTRAZONE CA HERBICIDE may be tank mixed with other EPA registered postemergence herbicides. Control of emerged annual grass weeds may be improved by combining SULFENTRAZONE CA HERBICIDE with Acclaim⁶, Dimension⁶, MSMA or Drive⁶. Read the label recommendations of the tank mix partner to determine turfgrass species safety, use rate and application procedures. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Read and follow the "TANK MIXTURES COMPATIBILITY" section of this label for instructions on how to determine the compatibility of tank mixtures.

When used as directed SULFENTRAZONE CA HERBICIDE will control or suppress the following weeds.

Table 2. Weeds Controlled or Suppres	sed by SULFENTRAZONE CA
HERBICIDE	

Bedstraw, catchweed (Galium aparine) Beggarweed, Florida (Desmodium tortuosum) Bittercress (Cardamine spp.) Black medic (Medicago lupulina) Buttercups (Ranunculus spp.) Carolina geranium (Geranium carolinianum) Carolina geranium (Geranium carolinianum) Carpetweed (Mollugo verticillata) Chickweed, mouseear (Cerastium vulgatum) Cinquefoil (Potentilla spp.) Clover (Trifolium spp.) Cudweed (Gnaphalium spp.) Cudweed (Graphalium spp.) Dandelion (Taraxacum officinale) Dock, Curly (Rumex crispus) Dollarweed (Hydrocotyl umbellata) Eclipta (Eclipta prostrata) Evening primrose (Oenothera biennis) Fiddleneck (Amsinckia spp.) Galinsoga (Galinsoga cillate) Goldenrod (Solidago spp.) Groundsel, common (Senecio vulgaris) Henbit (Lamium amplexicaule) Knawel (Solidago spp.) Groundsel, common (Seleranthus annuus)	HERBICIDE	
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Rocket, London (Sisymbrium irio)	Pusley, Florida	
Shaphard's pures (Cancella hurse nestoria)		
Glepherd's pulse (Capsella buisa-pastolis)	Shepherd's purse	(Capsella bursa-pastoris)

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Smartweed, Pennsylvania	(Polygoi, pensylvanicum)
Sorrel, Red	(Rumex acetosella)
Speedwell	(Veronica spp.)
Spurge, (annuals)	(Euphorbia spp.)
Spurge, prostrate	(Euphorbia humistrata)
Spurge, spotted	(Euphorbia maculata)
Star of Bethlehem	(Ornithogalum umbellatum)
Velvetleaf	(Abutilon theophrasti)
Violet, wild	(Viola pratincola)
Violet, Johnny-jump-up	(Viola rafeinesquii)
Wild garlic	(Allium vineale)
Wild onion	(Allium canadense)
Woodsorrel, creeping	(Oxalis corniculata)
Woodsorrel, yellow	(Oxalis stricta)

POSTEMERGENCE CONTROL OF ANNUAL AND PERENNIAL SEDGES

SULFENTRAZONE CA HERBICIDE will control or suppress sedges listed in the table below when applied at a rate of 4 to 12 fl oz/acre (0.092 to 0.275 fl oz/1,000 sq ft). Apply the highest rate consistent with the rate needed for turfgrass safety in Table 1. Rates lower than 12 fl oz/acre (0.275 fl oz/1,000 sq ft) will generally control sedges for at least 60 days. A rate of 12 fl oz/acre (0.275 fl oz/1,000 sq ft) will provide approximately 75% control for at least 60 days. Yellow nutsedge (*Cyperus esculentus*) is the most susceptible sedge species.

Good spray coverage is needed for optimum control of sedges. Temporary discoloration of some turfgrass species may result from use of surfactant. Use of surfactants is not recommended.

Common Name	SCIENTIFIC NAME
Kyllinga, green	(Kyllinga brevifolia)
Kyllinga, false green	(Kyllinga gracillima)
Nutsedge, purple'	(Cyperus rotundus)
Nutsedge, yellow	(Cyperus esculentus)
Sedge, globe	(Cyperus globulosus)
Sedge, cylindric	(Cyperus retrorsus)
Sedge, Surinam	(Cyperus surinamensis)
Sedge, Texas	(Cyperus polystachyos)

1. PURPLE NUTSEDGE; For optimum control of purple nutsedge, split applications are recommended (Table 4). Apply 4-8 ounces per acre as an initial application followed by a second application when evidence of actively growing purple nutsedge is visible. Do not exceed the maximum rate per acre based on turfgrass variety` listed in Table 1; Tolerant grasses.

Table 4

Split Application Rate Options		
Grass Type	Option 1 (fluid ounces/acre)	Option 2 (fluid ounces/acre)
Cool Season Grasses excluding Bentgrass (see Table 1)	4 oz followed by 4 oz 35 DAIT	6 oz followed by 2 oz 35 DAIT
Warm Season Grasses (see Table 1)	8 oz followed by 4 oz 35 DAIT	6 oz followed by 6 oz 35 DAIT

DAIT = Days After Initial Treatment

POSTEMERGENCE CONTROL OF GRASSY WEEDS

SULFENTRAZONE CA HERBICIDE will control or suppress specific annual grasses when applied at a rate of 4 to 12 fl oz/acre (0.092 to 0.275 fl oz/1,000 sq ft). Apply the highest rate consistent with the rate needed for turgrass tolerance in Table 1. Rates lower than 12 fl oz/acre (0.275 fl oz/1,000 sq ft) will generally control grasses for at least 60 days. SULFENTRAZONE CA HERBICIDE works best if applied when the annual grasses are small (pre tiller stage) and actively growing.

Good spray coverage is needed for optimum control of grasses. Temporary discoloration of some turfgrass species may result from use of surfactant. Use of surfactants is not recommended.

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Common Name	Scientific Name	
Goosegrass	Eleusine indica	

For use as Selective Weed Control in Container and Field Grown Ornamentals

Apply as a directed spray toward the base of the plant. Do not spray over-the-top. SULFENTRAZONE CA HERBICIDE is most effective when applied to soil free of clods and debris such as leaves or mulch. When applied pre-emergence, the treated area should receive at least 0.25 inches of irrigation or rainfall after application for the greatest efficacy.

The addition of liquid fertilizers can increase the probability of superficial damage to green plant tissue inadvertently treated if applied with SULFENTRAZONE CA HERBICIDE.

Use Precautions

1. Direct application of SULFENTRAZONE CA HERBICIDE onto actively growing foliage can cause unacceptable injury to desirable plants. See Table 7 for a list of tolerant ornamental species. To reduce injury, apply SULFENTRAZONE CA HERBICIDE as a site directed spray to the soil around the base of the plant. Avoid application directly to plant foliage where possible. However if the application makes contact with the foliage, apply overhead irrigation to wash SULFENTRAZONE CA HERBICIDE from the plant surfaces onto the soil.

2. Do not apply to areas where ornamental bulbs or dormant non-woody perennials are present. SULFENTRAZONE CA HERBICIDE is soil active and may damage these plants upon emergence.

Tolerant Ornamental Species

The species listed below in Table 7 are tolerant to SULFENTRAZONE CA HERBICIDE.

When plants are under stress (such as heat, drought, or frost damage), some cultivars of listed plants may be sensitive to SULFENTRAZONE CA HERBICIDE.

Common name	Scientific name
Abelia	Abelia X grandiflora
Anise Tree	Illicium spp.
Arborvitae	Thuja spp.
Azalea and Rhododendron	Rhododendron sp.
Birch, River	Betula nigra
Boxwood Species	Buxus spp.
Bridal - Wreath	Spirea spp.
Camellia	Camellia spp.
Cape Jasmine, Radicans	Gardenia augusta
Cedar, Red	Juniperus virginiana
Crape Myrtle	Lagerstroemia indica
Cypress, Bald	Taxodium distichum
Cypress, Leyland	Cupressocyparis leylandii
Dogwood	Cornus florida
Douglas Fir	Pseudotsuga menziesii
Fir Species (Fraser, Balsam, etc)	Abies fraseri
Forsythia	Forsythia X intermedia
Hawthorne	Crataegus spp.
Holly	llex spp.
Holly, Dwarf Yaupon	Ilex vomitora 'Nana'
Holly, Meserve	llex x meserveae
Holly, Rotunda	llex rotunda
Juniper	Juniperus spp.
Juniper, creeping	Juniperus horizontalis
Laurel, mountain	Kalmia latifolia
Ligustrum, Japanese	Ligustrum japonicum
Magnolia, southern	Magnolia gradiflora
Maple	Acer spp.
Non-bearing fruit and nut trees and	
vines	
Norway Spruce	Abies picea
Oak	Quercus spp.
Palm, Windmill	Trachycarpus fortune
Rose	Rosa spp.
Spruce	Picea, spp.
Yew	Taxus spp.

Table 7. Tolerant Ornamental Species

Application Sites and Instructions

Site	Application Instructions
Newly-Transplanted Container or Field Nursery Stock	 Apply after new transplant material has formed roots and is well established Do not apply until soil has settled around transplants. Direct application toward base of plant to avoid terminal and bud area of plant.
Established Container, Field Nursery Stock Plants, or Landscape Plants	1. Apply at any time as a directed spray toward the base of the plant.

Application Rate for Container and Field ... own Ornamentals

Amount to Apply (Broadcast)*	Comments
4 -12 fl oz/A 0.092 – 0.275 fl oz/1000 sq ft	1. Use 8-12 fl oz/A for sedges and perennial weeds.
	2. Multiple applications may be made if needed as long as total amount applied in one year does not exceed 12 fl oz/A
	3. Direct application toward base of plants

*Do not use on food producing trees, vines, or plants

Preemergence control of annual broadleaf weeds and Sedges

Sedges SULFENTRAZONE CA HERBICIDE will control or suppress the weeds listed in Table 8. When applied prior to weed germination, apply SULFENTRAZONE CA HERBICIDE at a rate of 4 to 12 fl oz/acre. To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 8, SULFENTRAZONE CA HERBICIDE may be tank mixed with other EPA registered pre-emergence herbicides. Refer to the Tank Mixtures Compatibility section of this label to determine compatibility of tank mixtures. Consult the label for application instructions for each of the tank mix products. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Control of emerged annual grass weeds may be improved by combining SULFENTRAZONE CA HERBICIDE with other post emergence herbicides.

POSTEMERGENCE CONTROL OF ANNUAL, BIENNIAL & PERENNIAL BROADLEAF WEEDS

SULFENTRAZONE CA HERBICIDE will control or suppress the weeds listed in Table 8 when applied alone shortly after weeds have emerged. Apply SULFENTRAZONE CA HERBICIDE at rates from 4 to 12 fl oz/acre (0.092 to 0.275 fl oz/1,000 sq ft). To broaden the weed spectrum and increase effectiveness for certain weeds listed in Table 8, SULFENTRAZONE CA HERBICIDE may be tank mixed with other EPA registered postemergence herbicides. Refer to the Tank Mixtures Compatibility section of this label to determine compatibility of tank mixtures. Consult the label for application instructions for each of the tank mix products. Follow all label restrictions, use directions and precautionary statements before using these tank mixtures. Control of emerged annual grass weeds may be improved by combining SULFENTRAZONE CA HERBICIDE with other registered post emergence herbicides.

When used as directed SULFENTRAZONE CA HERBICIDE will control or suppress the following weeds

Table 8.	Weeds	Controlled	or	Suppressed	by	Sulfentrazone	CA
Herbicide							
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BROADLEAVES	SCIENTIFIC NAMES
Bedstraw, catchweed	(Galium aparine)
Beggarweed, Florida	(Desmodium tortuosum)
Bittercress	(Cardamine spp.)
Black medic	(Medicago lupulina)
Buttercups	(Ranunculus spp.)
Carolina geranium	(Geranium carolinianum)
Carpetweed	(Mollugo verticillata)
Chickweed, common	(Stellaria media)
Chickweed, mouseear	(Cerastium vulgatum)
Cinquefoil	(Potentilla spp.)
Clover	(Trifolium spp.)
Copperleaf	(Ascalypha spp.)
Cudweed	(Gnaphalium spp.)
Dandelion	(Taraxacum officinale)
Dock, Curly	(Rumex crispus)
Dollarweed	(Hydrocotyl umbellata)
Eclipta	(Eclipta prostrata)
Evening primrose	(Oenothera biennis)
Fiddleneck	(Amsinckia spp.)
Filaree	(Erodium spp.)
Galinsoga	(Galinsoga ciliate)
Goldenrod	(Solidago spp.)
Ground ivy	(Glechoma hederacea)
Groundsel, common	(Senecio vulgaris)
Henbit	(Lamium amplexicaule)
Knawel	(Scleranthus annuus)
Knotweed, prostrate	(Polygonum aviculare)
Kochia	(Kochia scoparia)
Lambsquarters, common	(Chenopodium album)
Lawn burweed (spurweed)	(Soliva pterosperma)
Lespedeza, common	(Lespedeza striata)
Mallow, common	(Malva neglecta)
Parsley piert	(Alchemilla arvensis)
Pigweed, Redroot	(Amaranthus retroflexus)
Pigweed, Smooth	(Amaranthus hybridus)
Pigweed, Tumble	(Amaranthus albus)
Pineapple weed	(Matricaria matricarioides)
Plantain, buckhorn	(Plantago lanceolata)
Puncture weed	(Tribulus terrestris)

Purslane, common Pusley, Florida Portulaca oleracea) (Richardia scabra) Redweed (Melochia corchorifolia) Rocket, London (Sisymbrium írio) Shepherd's purse (Capsella bursa-pastoris) Smartweed, Pennsylvania Sorrel, Red (Polygonum pensylvanicum) (Rumex acetosella) (Veronica spp.) Speedwell Spurge, (annuals) (Euphorbia spp.) Spurge, prostrate (Euphorbia humistrata) Spurge, spotted Star of Bethlehem (Euphorbia maculata) (Ornithogalum umbellatum) Velvetleaf (Abutilon theophrasti) Violet, wild (Viola pratincola) Violet, Johnny-jump-up (Viola rafeinesquii) Wild garlic (Allium vineale) (Allium canadense, Wild onion Woodsorrel, creeping (Oxalis corniculata) Woodsorrel, yellow (Oxalis stricta)

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POSTEMERGENCE CONTROL OF SEDGES

SULFENTRAZONE CA HERBICIDE will control or suppress sedges (Table 9) when applied at a rate of 4 to 12 fl oz/acre (0.092 to 0.275 fl oz/1,000 sq ft). Rates lower than 12 fl oz/acre (0.275 fl oz/1,000 sq ft) have been shown to control sedges for up to 60 days. For longer residual control or heavier sedge populations, a second application 30 days following the first may be needed for optimum control. Do not exceed a total application rate of 12 fl oz/A (0.275 fl oz/1,000 sq ft or 0.375 lb ai/A) per year.

Good spray coverage is needed for optimum control of sedges.

Table 9. Sed	e species controlled or suppressed by Sulfentrazone	
CA Herbicide	,	

Common Name	SCIENTIFIC NAME
Kyllinga, green	(Kyllinga brevifolia)
Kyllinga, false green	(Kyllinga gracillima)
Nutsedge, purple	(Cyperus rotundus)
Nutsedge, yellow	(Cyperus esculentus)
Sedge, globe	(Cyperus globulosus)
Sedge, cylindric	(Cyperus retrorsus)
Sedge, Surinam	(Cyperus surinamensis)
Sedge, Texas	(Cyperus polystachyos)

¹Purple Nutsedge: For optimum control of purple nutsedge, split applications are recommended (Table 6). Apply 4-8 ounces per acre as an initial application followed by a second application when evidence of actively growing purple nutsedge is visible. Do not exceed a total application rate of 12 fl oz/A (0.275 fl oz/1,000 sq ft or 0.375 lb ai/A) per year.

LABEL TRACKING INFORMATION

Label Code: 062813 Replaces Label Code: 082

Replaces Label Code: 082712

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