

# Simazine 4L

## For Control of Most Annual Broadleaf and Grass Weeds

### ACTIVE INGREDIENT

Simazine: 2-chloro-4,6-bis(ethylamino)-s-triazine.....	41.9%
INERT INGREDIENTS.....	58.1%
TOTAL .....	100.0%

SIMAZINE 4L contains 4 lbs. active ingredient per gallon.

## KEEP OUT OF REACH OF CHILDREN CAUTION

### FIRST AID

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

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

**IF SWALLOWED:** Call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to by a poison control center or doctor.

Have the product container or label with you when calling a poison control center or doctor or going for treatment.

For additional information in case of medical emergency call toll free 1-877-424-7452.

### PRECAUTIONARY STATEMENTS

#### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**CAUTION:** Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with eyes, skin or clothing.

#### Personal Protective Equipment:

Some materials that are chemical-resistant to this product are polyethylene and vinyl chloride. If you want more options, follow the instructions for category A on the EPA chemical-resistant chart.

All mixers, loaders, applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves, and shoes plus socks.

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.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them.

#### Engineering Controls:

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240(d)(4,5)), the handler PPE requirements may be reduced or modified as specified in the WPS.

Read additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 9779-296

EPA Est. No. \_\_\_\_

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### USER SAFETY RECOMMENDATIONS

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

### ENVIRONMENTAL HAZARDS

Simazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Simazine has been found in groundwater. Users are advised not to apply simazine to sand and loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Product must not be mixed/loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. 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 spill or equipment leaks, container or equipment rinse or washwater and rain water that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad, which means that 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 a minimum of 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 largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above specified minimum containment capacities do not apply to vehicles when delivering pesticide shipments to the mixing or loading sites.

Additional state-imposed requirements regarding well-head setbacks and operational area containment must be observed.

Product must not be mixed or loaded within 50 feet of intermittent streams or rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 ft. of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff points must be planted to crop or seeded with grass or other suitable crop.

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, to areas where surface water is present, or to intertidal areas below the mean high water mark. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

One of the following restrictions must be used in applying simazine to tile-outletted terraced fields containing standpipes:

- Do not apply within 66 feet of standpipes in tile-outletted terraced fields.
- Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2-3 inches in the entire field.
- Apply this product to the entire tile-outletted terraced field under a no-till practice only when a high crop residue management practice is practiced. High crop residue management is described as a crop management practice where little or no crop residue is removed from the field during and after crop harvest.

### DIRECTIONS FOR USE

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

ANY USE OF THIS PRODUCT IN AN AREA WHERE USE IS PROHIBITED IS A VIOLATION OF FEDERAL LAW. Before using this product, you must consult the Simazine Watershed Information Center (SWIC) to determine whether the use of this product is prohibited in your watershed. SWIC can be accessed through [www.simazine-watershed.info](http://www.simazine-watershed.info), or 1-888-365-2874. If use of this product is prohibited in your watershed, you may return this product to your point of purchase or contact registrant for a refund.

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

### **AERIAL APPLICATION IS PROHIBITED.**

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR WEED CONTROL, AND/OR ILLEGAL RESIDUES.

For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

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.

When tank-mixing or sequentially applying simazine or products containing simazine, the total pounds of simazine applied must not exceed the specific maximum rate per calendar year as noted in the use directions.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE), and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

For Christmas trees, do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 48 hours. For all other crops and use patterns, do not enter or allow worker entry into treated areas during the REI of 12 hours.

Exception: If the product is soil-injected or soil-incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls, chemical resistant gloves, 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.

Do not enter or allow others (including children or pets) to enter until sprays have dried.

### PESTICIDE STORAGE AND DISPOSAL

#### DO NOT CONTAMINATE WATER, FOOD, OR FEED BY STORAGE OR DISPOSAL.

**PESTICIDE STORAGE:** Store in a dry location away from children, animals, foods, feeds, seeds, or other agricultural chemicals. Handle in accordance with information given under PRECAUTIONARY STATEMENTS. In the event of spillage or leakage, soak up material with absorbent clay, sand, sawdust, or other absorbent material. Scrape up and dispose of in accordance with information given under DISPOSAL. Repackage and relabel useable product in a sound container.

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

**CONTAINER DISPOSAL:** Use label language appropriate for container size and type.

**Nonrefillable containers.** Do not reuse or refill this container. Clean container promptly after emptying.

**Nonrefillable container equal to or less than 5 gallons.** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container  $\frac{1}{4}$  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. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**Nonrefillable container greater than 5 gallons.** Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container  $\frac{1}{4}$  full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Repeat this procedure two more times. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**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 from this container into application equipment or mix tank. Fill the container about 10 percent 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 or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or, if allowed by state and local authorities, by burning. If burned, stay out of smoke.

**FOR CHEMICAL EMERGENCY: Spill, leak, fire, exposure or accident, call  
CHEMTREC 1-800-424-9300.**

### PRODUCT INFORMATION

SIMAZINE 4L is a herbicide that should be applied before weeds emerge or following removal of weed growth. It controls a wide variety of annual broadleaf and grass weeds when used at selective rates in agricultural crops and ornamental plantings. When used at higher, non-selective rates in crop areas, it also controls many perennial broadleaf and grass weeds. Since SIMAZINE 4L enters weeds mainly through their roots, rainfall or irrigation is needed to move it into the root zone. Very dry conditions and lack of rainfall following application may necessitate shallow cultivation.

Simazine controls most annual broadleaf and grass weeds such as:

Alyssum	Knawel (German Moss)
Annual Bluegrass	Lambsquarters
Annual Morningglory	Nightshade
Annual Ryegrass	Pepperweed
Barnyardgrass (Watergrass)	Pigweed

Burclover	Pineappleweed
Carelessweed	Prickly Lettuce
Carpetweed	Purslane
Common Chickweed	Ragweed
Crabgrass ( <i>Digitaria spp.</i> )	Rattail Fescue
Downy Brome (Cheat)	Redmaids
Fall Panicum	Russian Thistle
Fiddleneck	Shepherdspurse
Filaree	Signalgrass ( <i>Brachiaria spp.</i> )
Fireweed	Silver Hairgrass
Fivehook Bassia	Smartweed
Flora's Paintbrush	Spanish Needles
Florida Pusley	Speedwell
Foxtails	Tansymustard
Goosegrass	Wild Mustard
Groundsel	Wild Oats
Henbit	Witchgrass
Junglerice	Yellow Flower Pepperweed

Where a range of application rates is given, use the low rate on coarser textured soil and soil lower in organic matter; use the high rate on finer textured soil and soil higher in organic matter.

SIMAZINE 4L is a flowable formulation to be mixed with water and applied as a spray. Add SIMAZINE 4L to the spray tank during or after filling. Sufficient hydraulic (jet) or mechanical agitation should be provided during mixing and application to keep the material in suspension.

#### RESISTANCE MANAGEMENT RECOMMENDATIONS

SIMAZINE 4L IS A GROUP 5 HERBICIDE. FOLLOWING MANY YEARS OF CONTINUOUS USE OF SIMAZINE AND CHEMICALLY RELATED PRODUCTS, BIOTYPES OF SOME OF THE WEEDS LISTED ON THIS LABEL HAVE BEEN REPORTED WHICH CANNOT BE EFFECTIVELY CONTROLLED BY THIS AND RELATED HERBICIDES. WHERE THIS IS KNOWN OR SUSPECTED AND WEEDS CONTROLLED BY THIS PRODUCT ARE EXPECTED TO BE PRESENT ALONG WITH RESISTANT BIOTYPES, WE RECOMMEND THE USE OF THIS PRODUCT IN REGISTERED COMBINATIONS OR IN SEQUENCE WITH OTHER REGISTERED HERBICIDES WHICH ARE NOT TRIAZINES. IF ONLY RESISTANT BIOTYPES ARE EXPECTED TO BE PRESENT, USE A REGISTERED NON-TRIAZINE HERBICIDE. CONSULT WITH YOUR STATE AGRICULTURAL EXTENSION SERVICE FOR SPECIFIC RECOMMENDATIONS.

Any weed population may contain or develop plants naturally resistant to Simazine 4L or other Group 5 herbicides. Weed species with acquired resistance to Group 5 may eventually dominate the weed population if Group 5 herbicides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by Simazine 4L or other Group 5 herbicides.

To delay herbicide resistance consider:

- Avoiding the consecutive use of Simazine 4L or other target site of action Group 5 herbicides that have a similar target site of action, on the same weed species.
- Using tank-mixtures or premixes with herbicides from different target site of action Groups as long as the involved products are all registered for the same use, have different sites of action, and are both effective at the tank mix or prepack rate on the weed(s) of concern.
- Basing herbicide use on a comprehensive IPM program.
- Monitoring treated weed populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or Winfield Solutions, LLC representative for herbicide resistance management and/or integrated weed management recommendations for specific crops and resistant weed biotypes.

#### TANK MIX COMPATIBILITY TEST

Compatibility test: To determine the tank mix compatibility of SIMAZINE 4L with liquid fertilizer, crop oil, spreaders, or recommended pesticides, use this test method. Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray in corn. Since liquid fertilizers can vary, even within the same analysis, check compatibility each time before use. Be especially careful when using complete suspension or fluid fertilizers as serious compatibility problems are more apt to occur. Commercial application equipment may improve compatibility in some instances. Check compatibility using this procedure:

1. Add 1 pint of fertilizer to each of 2 one-quart glass jars with tight lids.
2. To one of the jars add ¼ teaspoon of a compatibility agent approved for this use (¼ teaspoon is equivalent to 2 pints per 100 gallons spray). Cap and shake until mixed. Examples of compatibility agents include Complex<sup>®</sup>, and Unite<sup>®</sup>.
3. To both jars add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, cap and shake until thoroughly mixed. The appropriate amount of herbicides for this test follows (assuming a spray volume of 25 gallons per acre):

Dry herbicides: For each pound per acre add 1.5 teaspoons to each jar. Fluff up wetttable powder products before measuring.

Liquid herbicides: For each pint per acre add 0.5 teaspoons to each jar.

For a spray volume other than 25 gallons per acre, change the teaspoons added to each jar as follows:

$$\frac{25 \text{ gallons} \times \text{no. teaspoons given above}}{\text{desired gallons spray volume per acre}} = \text{teaspoons to add to each jar}$$

4. After adding all ingredients, put lids on and tighten. Shake jars vigorously one minute. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, grease, gels, medium to heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture probably can be sprayed as long as good agitation is used. If the mixtures are incompatible, test the following methods of improving compatibility: (A) slurry the dry herbicide(s) in water before addition, or (B) add ½ of the compatibility agent to the fertilizer and the other ½ to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.

#### EQUIPMENT

**GROUND APPLICATION:** Use conventional spray equipment with 80° fan-type nozzles. Screens in nozzles as well as those in suction and inline strainers should be no finer than 50 mesh. Use hydraulic or mechanical agitation during mixing and application to maintain a uniform suspension. Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension. Wash sprayer thoroughly with clean water immediately after use.

Add SIMAZINE 4L directly to the spray tank partially filled with clear water. Add any tank mix ingredients, and then add remainder of water. Provide constant agitation during mixing to keep mixture in suspension. Agitation should not be so violent as to cause air bubbles to form in the mixture. For ground application where the amount of water is not specified, apply SIMAZINE 4L in 20-40 gals. of water per acre.

#### SPRAY DRIFT MANAGEMENT

A variety of factors including weather conditions (e.g., wind direction, wind speed, temperature, relative humidity) and method of application (e.g., ground, chemigation) can influence pesticide drift. The applicator and grower must evaluate all factors and make appropriate adjustments when applying this product.

##### Wind Speed

Do not apply at wind speeds greater than 10 mph.

##### Droplet Size

Apply as a coarse or coarser spray (ASAE standard 572).

##### Release Height

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

Avoid spray overlap as crop injury may result.

#### FRUIT AND NUT CROPS

Apply the spray to the orchard or vineyard floor, avoiding contact with fruit, foliage, or stems. Make application only to orchards or groves where trees have been established one year or more. Make only one application per year, except as noted otherwise. Recommended rates are based on broadcast treatment. For band applications around trees in fruit and nut plantings, reduce the broadcast rate of SIMAZINE 4L and water per acre in proportion to the areas actually sprayed.

**APPLES, PEARS, SOUR CHERRIES:** Apply 2-4 qts. per acre. Apply only once per calendar year. Do not apply more than 4 qts./acre per calendar year. Pre-harvest interval for apples: 150 days

**AVOCADOS** (Apply only in Florida only): Apply 2-4 qts. per acre after final preparation in grove. Do not apply to sandy soil. Apply only once per calendar year. Do not apply more than 4 qts./acre per calendar year.

**BLUEBERRIES AND CANEBERRIES (Blackberries, boysenberries, loganberries, raspberries):** Apply 2-4 qts. per acre in the spring or apply a split application of 2 qts. per acre in the spring plus 2 qts. per acre in the fall. Do not apply more than twice per calendar year. Do not apply more than 4 qts./acre per calendar year. Apply in a minimum of 40 gals. of water per acre. On plantings less than 6 months old, use ½ of the above rate. To control quackgrass, apply 4 qts. per acre in the fall or split the application applying 2 qts. per acre in the fall and 2 qts. per acre in the spring, when quackgrass is actively growing. Do not apply when fruit is present or illegal residues may result.

**FILBERTS** (Oregon and Washington only): Apply 2-4 qts. per acre in the fall or apply a split application of 2 qts. per acre in the fall plus 2 qts. per acre in the spring. Do not apply more than twice per calendar year. Do not apply more than 4 qts./acre per calendar year. If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. Do not use on sandy soil. Do not apply when nuts are on the ground during the harvest period or illegal residues may result.

**GRAPES:** Apply 2-4 qts. per acre any time between harvest and early spring. Do not use in vineyards established less than three years, or crop injury may result. Apply only once per calendar year. Do not apply more than 4 qts./acre per calendar year.

#### GRAPEFRUIT, LEMONS, ORANGES

Arizona (Lemons and Oranges only): Apply a split application of 1.6 qts. per acre in the spring plus 1.6 qts. per acre in the fall. Do not apply more than 1.6 qts. per acre per application. Do not apply more than 3.2 qts./acre per calendar year.

Florida (Grapefruit and oranges only): Apply 4 qts. SIMAZINE 4L to weed-free soil during the spring and/or fall to control weeds expected to emerge during these periods. Apply prior to emergence of weeds or if weeds have emerged, apply in tank mixture with a contact herbicide. Use caution to keep the treatment off the foliage, fruit or trunk of citrus trees. For control of difficult species, such as balsam apple vine and spanishneedles, and partial control of honeyvine milkweed, apply no more than 8 qts. of SIMAZINE 4L per treated acre as a single application in the spring using a 50% band application. The amount of SIMAZINE 4L applied per acre of field should not exceed 4 qts. Apply in the spring growing season between January and April. Do not make a fall SIMAZINE 4L application if this treatment was used in the spring. When emerged weeds are present, apply SIMAZINE 4L in a tank mix with a labeled contact herbicide. Follow all directions, precautions, limitations, etc. on the tank mix products. Do not apply more than 8 qts./acre per calendar year. Do not apply more than 4 qts./acre per application.

**Texas** (Grapefruit and Oranges only): Apply 4 qts. per acre. Do not apply more than twice per calendar year. Do not exceed 4 qts. per acre per calendar year.

**Use Precautions** (All Areas): 1) Do not use in nurseries. 2) Do not apply to bedded grapefruit, lemons, or oranges (except for FL grapefruit and oranges). 3) To avoid possible injury, do not apply to trees under stress from freeze damage for one year after the freeze.

**SIMAZINE 4L plus Bromacil 80W Tank Mix Combination For Weed Control in Grapefruit and Oranges (FL Only)**

Use this tank mix in FL to control balsamapple, black nightshade, carpetweed, crabgrass, cudweed, dayweed Florida pusley, horse weed, pepperweed, pigweed, poorjoe, ragweed rattlebox, spanishneedles and sandbur, and for partial control of bermudagrass, bahiagrass, pangolagrass, paragrass and torpedograss. Apply 4 qts. of SIMAZINE 4L plus 3 - 4 lbs. of Bromacil 80W per acre beneath trees in a minimum of 40 gals. of water per acre before or soon after weed growth begins. Use caution to keep the spray off the foliage, fruit or trunk of citrus trees. When mixing, add Bromacil 80W slurry to water in spray tank, agitate thoroughly, then add SIMAZINE 4L and agitate thoroughly again. Use the lower rates for light weed infestations or all applications in bedded citrus areas. Use the higher rates for heavy weed infestations only in ridge grown citrus areas. Temporary yellowing of citrus leaves may occur following treatment. To avoid crop injury: Do not use in nurseries, or where trees are under stress from freeze damage for one year after the freeze. Do not use on diseased trees such as those with foot rot. Do not use on soil with less than 1% organic matter or on poorly drained soils. Do not use on trees planted in irrigation furrows. Do not use in groves interplanted with other trees or desirable plants, nor in home grapefruit or orange plantings, or in areas where roots of other valuable plants or trees may extend. Treated areas may be planted to citrus trees one year after application. Do not rotate to other crops within two years after application. Apply only once per year and avoid contact with foliage and fruit with spray, or illegal residues may result.

**MACADAMIA NUTS:** Apply 2-4 qts. in 50 gals. of water per acre before harvest and just prior to weed emergence. Apply only once per calendar year. Do not apply more than 4 qts./acre per calendar year. Do not apply when nuts are on the ground during the harvest period, as illegal residues may result.

**OLIVES:** Apply 2-4 qts. per acre following grove preparation in the fall. Repeat annually in midwinter. Apply only once per calendar year. Do not apply more than 4 qts./acre per calendar year

**PEACHES :** Do not apply more than 4 qts. per treated acre per calendar year. Apply in late fall to early spring prior to weed emergence. Do not apply more than once per calendar year.

**PLUMS, SWEET CHERRIES:** Apply 2-4 qts. per acre. Apply in late fall to early spring prior to weed emergence. Apply only once per calendar year. Do not apply more than 4 qts. per calendar year. For plums and sweet cherries, use only in Missouri and states east of the Mississippi River except Tennessee.

**PECANS:** Apply 2-4 qts./acre before weeds emerge in the spring. Apply only once per calendar year. Do not apply more than 4 qts. per calendar year. Do not use west of the Pecos River in TX or in AZ or NM. Do not make applications to transplanted trees that have been established less than two years in the grove. Do not apply when nuts are on the ground for illegal residues can result. Do not allow animals to graze treated areas.

**STRAWBERRIES** (Apply only in Oregon and Washington): For control of chickweed, groundsel, mustard, and shepherdspurse, apply broadcast 1 qt. per acre. In fields where overhead irrigation is used to activate this product, apply after harvest at time of bed renovation. In fields where overhead irrigation is not available, apply during early October through November. Apply only once per calendar year. Do not apply more than 1 qt. per calendar year. Do not apply within 4 months after transplanting.

**WALNUTS:** Apply 2-4 qts. per acre. Apply only once per calendar year. Do not apply more than 4 qts. per calendar year. Do not apply to sandy soil. Leveling and furrowing operations after application will lessen effectiveness of weed control. Do not apply when nuts are on the ground or illegal residues may result.

**SIMAZINE 4L PLUS GRAMOXONE® EXTRA TANK MIX COMBINATION FOR WEED CONTROL IN APPLES, PEACHES, AND PEARS**

SIMAZINE 4L plus Gramoxone Extra tank mix combinations are effective in apple, peach and pear orchards for killing existing vegetation and for residual control of the annual broadleaf and grass weeds listed under Product Information. This combination is also effective for top kill and suppression of perennial weeds. Apply the rates shown in the following table as a tank mix in 50-200 gals. of water per acre to the orchard floor avoiding contact with fruit, foliage or stems. Apply when the weeds and grasses are succulent and the new growth is from 1-6 inches tall. Since Simazine enters weeds mainly through their roots, rainfall or irrigation is needed to move it into the root zone.

Crop	Broadcast* SIMAZINE 4L	Rate Per Acre Gramoxone Extra*
Apples, Pears	2-4 qts.	1.5 - 2.5 qts.
Peaches**	1.6-4 qts.	1.5 - 2.5 qts.

\* For band applications or spot applications around trees, reduce the broadcast rate and the amount of water in proportion to the area actually sprayed.

\*\* Do not apply to peaches on sandy or gravelly soil. Use on peaches only in Arkansas, Louisiana, Missouri, Oklahoma, Texas and states east of the Mississippi River.

In the table above, use the low rate on coarse-textured soil and low organic matter soil. Use the high rate on fine textured soil and high organic matter soil. Make only one application per year. Make applications only in orchards or groves where trees have been established one year or more. Do not spray under windy conditions and use a shield for young trees. Do not allow animals to graze treated areas.

**SIMAZINE 4L Plus Roundup<sup>(R)</sup> Tank Mix**

Use this tank mix for effective control of existing vegetation and for residual control of the annual broadleaf and grass weeds claimed for this product alone in grape vineyards and in the following bearing and nonbearing tree crops:

Apples	Macadamia nuts**
Avocados*( FL only)	Orange***(AZ, FL and TX)
Cherries (sour and sweet**** <sup>2</sup> )	Peaches <sup>1</sup>
Filberts**	Pears*
Grapefruit***(FL and TX)	Pecans**
Grapes*	Plums**** <sup>2</sup>
Lemons*(AZ)	Walnuts**

Use the appropriate rate given elsewhere on this label for SIMAZINE 4L applied alone to the crop being treated. Add to the spray tank 1-5 qts. of Roundup per acre depending on weeds present and their growth stage. Also add an agriculturally approved nonionic surfactant such as Activate Plus, at 0.5% by volume of spray solution. Apply the mixture in 10-40 gals. of water per acre as a postemergence spray to the weeds at the appropriate weed growth stage given on the Roundup label. Mixing: With the spray tank half filled with water add SIMAZINE 4L to the spray tank first; then add Roundup and the surfactant. Provide constant agitation during mixing and application to keep the mixture in suspension. To avoid crop injury, take extreme care to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit, or other parts of trees or vines. Observe and follow all precautions and limitations on both SIMAZINE 4L and Roundup labels for each crop involved.

\*Allow a minimum of 14 days between last application and harvest of these crops.

\*\*Allow a minimum of 21 days between last application and harvest of these crops.

\*\*\*Allow a minimum of 24 hours between last application and harvest of these crops.

\*\*\*\*Allow a minimum of 17 days between last application and harvest of these crops.

<sup>1</sup>Limited to AR, LA, MO, OK, TX and states east of the Mississippi River.

<sup>2</sup>Plums and sweet cherries: Limited to MO and states east of the Mississippi River except TN.

**SIMAZINE 4L Plus Solicam<sup>®</sup> Tank Mix**

To obtain improved control of such weeds as clover, cutleaf, evening primrose, dandelion, henbit, horseweed or marestalk, lambsquarters and puncture vine, apply SIMAZINE 4L in tank mixture on these crops:

**Oranges, Grapefruit, Lemons.**

Apply the SIMAZINE 4L rate given under the appropriate crop on this label plus 4 - 5 lbs. of Solicam DF in 20 - 100 gals. of water per acre. Use the same rates in all coarse-textured soils. Do not apply this combination more than 2 times per year. SIMAZINE 4L + Solicam may be applied in tank mix with Gramoxone Extra or Roundup. Refer to the respective labels of all herbicides when applying tank mixtures. Keep SIMAZINE 4L + Solicam mixtures from contacting foliage, fruits and stems of citrus trees during application. Do not apply within 12 weeks of citrus harvest.

**SIMAZINE 4L Plus Surflan<sup>(R)</sup> Tank Mix**

Use this tank mix in the following crops for preemergence control of all weeds claimed on both labels:

Apples	Filberts	Oranges	Pecans
Avocados	Grapes	Peaches	Plums
Cherries	Grapefruit	Pears	Walnuts
	Lemons		

Apply the SIMAZINE 4L rate given under the appropriate crop on this label plus 2.67 - 5.33 lbs. of Surflan 75W or 2 - 4 qts. of Surflan A.S. in 20 -40 gals. of water per acre. Refer to the Surflan 75W or Surflan A.S. label for complete tank mix directions and observe all precautions and limitations on all labels in tank mix.

**FIELD CROPS**

**CORN:** Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for SIMAZINE 4L. Do not apply after corn has emerged as there is danger of liquid fertilizers causing crop injury.

**Preemergence:** Apply before weeds and corn emerge. Apply a maximum of 2 qts per acre as a single preemergence application on soils that are not highly erodible or on highly erodible soils, as defined by the Natural Resources Conservation Service, if at least 30% of the soil is covered with plant residues. If a second treatment is required following an earlier herbicide application, the total simazine applied may not exceed 2.5 qts. per acre per calendar year. Apply a maximum of 1.6 qts per acre as a single preemergence application on highly erodible soils if <30% of the soil is covered with plant residues.

**Preplant:** Apply in the spring after plowing at the appropriate rate in the table below. Apply before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of SIMAZINE 4L. Best results will be obtained when SIMAZINE 4L is applied within 2 weeks before planting. Under dry weather conditions, preplant applications may give better weed control.

Soil Texture	Broadcast rate per acre
Coarse-textured soil: Sand, silt, and loam that is low in organic matter	2 qts.
Medium-textured soil: Soil containing a moderate amount of clay and organic matter	2.4 qts.
Fine-textured soil: Loam that is high in organic matter and clay	2.5 qts.

(including dark prairie soils of Corn Belt)	
Organic soil: Peat, muck and high organic clay	2.5 qts.

To control quackgrass: Apply 3-4 qts. per acre in the fall. Plow two to three weeks later, or if erosion is a problem, delay plowing until spring. Do not plant any crop except corn in the spring following treatment. Do not graze treated areas. If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

#### Winter Annual Weed Control – Preemergence Fall Application

For preemergence control of winter annual weeds, such as common chickweed, henbit, shepherds purse, tansy mustard, wild mustard, annual bluegrass, downy brome, and others, broadcast 1 quart per acre of SIMAZINE 4L after harvest of the preceding crop and prior to weed emergence on land to be planted only to corn the following year. A tillage operation may precede the application. Do not apply to frozen ground. If SIMAZINE 4L is used in a fall corn weed control program, do not exceed 1.5 quarts of SIMAZINE 4L preemergence the following spring.

Precautions: 1) Do not apply more than 2.5 qts. of SIMAZINE 4L to corn in any one year. 2) Land treated with SIMAZINE 4L should not be planted to any crop except corn until the following year as injury may occur. 3) After harvest of a treated crop, plow and thoroughly till the soil in fall or spring to minimize possible injury to spring-seeded rotational crop, regardless of the rate used. 4) If more than 2.5 qts. of SIMAZINE 4L is used per acre (or equivalent rate in a band), a crop of untreated corn should precede the next rotational crop. 5) Do not apply SIMAZINE 4L preplant incorporated in corn in the High Plains and intermountain areas of the West (including central and western Kansas, western Nebraska, western Oklahoma, and the panhandle of Texas) where rainfall is sparse and erratic or where irrigation is required. 6) In the High Plains and intermountain areas of the West where rainfall is sparse and erratic or where irrigation is required, use SIMAZINE 4L to control weeds in corn only when corn is to follow corn, or a crop of untreated corn is to precede another rotational crop. 7) In western Minnesota and eastern parts of the Dakotas, Nebraska, and Kansas, do not plant soybeans following corn treated with SIMAZINE 4L if more than 2 qts. of SIMAZINE 4L per acre (or equivalent rate in a band) were applied, as injury may occur. 8) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small seeded legumes and grasses the year after SIMAZINE 4L application, as injury may occur. 9) Pre-grazing/pre-harvest interval for field corn: 60 days. 10) Pre-grazing/pre-harvest interval for sweet corn: 45 days.

**SIMAZINE 4L PLUS ATRAZINE 4L\* TANK MIX COMBINATION FOR WEED CONTROL IN CORN:** The tank mix combination of SIMAZINE 4L plus ATRAZINE 4L may be applied either before, during or after planting corn but before weeds emerge to control early germinating annual weeds and late competing grasses. One application will control most annual broadleaf and grass weeds including fall panicum, crabgrass, barnyardgrass, foxtail, velvetleaf, carpetweed, morningglory, lambsquarters, pigweed and ragweed. Preplant Application: Apply the tank mixture as a broadcast treatment in the spring after plowing either before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of SIMAZINE 4L plus ATRAZINE 4L. Best results will be obtained when the tank mix is applied within two weeks before planting. Preemergence Application: Apply the tank mixture during or shortly after planting but prior to crop and weed emergence.

SOIL	PREPLANT AND PREEMERGENCE BROADCAST RATE IN 10-40 GALS. OF WATER PER ACRE	
	SIMAZINE 4L	ATRAZINE 4L
Coarse textured soil: Sand, loamy sand, sandy loam	1 qt.	1qt.
Medium textured soil: Silt loam and clay loam low in organic matter	1.2 qts.	1.2 qts.
Fine textured soil: Silt loam and clay loam with medium to high organic matter and clay (including dark prairie soils of the Corn Belt)	1.5 qts.	1.5 qts.

#### **SIMAZINE 4L Plus Gramoxone Extra Tank Mix in Corn**

Use this tank mix where corn will be planted directly in a cover crop, established sod or previous crop residues. This combination controls existing vegetation and provides residual control of the annual broadleaf and grass weeds listed under the Product Information section of this label.

Add SIMAZINE 4L to the spray tank, mix thoroughly with water, and then add Gramoxone Extra and a nonionic surfactant, such as Activate Plus. Provide constant agitation during mixing and application to keep the mixture in suspension. Apply 4 - 6 pts. of SIMAZINE 4L plus 1.5 - 2.5 pts. of Gramoxone Extra in 20 - 60 gals. of water per acre as a broadcast spray either before or after planting, but before corn emerges. Add the nonionic surfactant at the rate of 0.5 pts./100 gals. of spray volume. Observe and follow all precautions and limitations on both labels.

#### **SIMAZINE 4L Plus Sutan+<sup>(R)</sup> Tank Mix in Corn**

Use this tank mixture preplant incorporated for control of all weeds claimed on both labels, including partial control (suppression) of shattercane (wild cane). Liquid fertilizer may replace all or part of the water in the spray. Check the physical compatibility of the mixture with the fertilizer of choice before use. Refer to the Product Information section of this label for the compatibility test procedure. Use a minimum of 20 gallons of spray volume per acre. Refer to the Sutan+ label for incorporation directions. Use the higher rate of SIMAZINE4L on fine-textured soil and where heavy broadleaf infestations are expected. For partial control (suppression) of shattercane, broadcast and incorporate immediately before planting 2 - 4 pts. of SIMAZINE 4L plus 7.33 pts. of Sutan + 6.7E per acre. For control of the other weeds claimed on both labels, broadcast and incorporate 2 - 6 pts. of SIMAZINE 4L plus 4.75 pts of Sutan + 6.7E per acre. Observe and follow all precautions and limitations on both labels.

#### **NURSERIES, CHRISTMAS TREE PLANTINGS AND SHELTER BELTS**

**NURSERIES** (Woody Ornamentals, Deciduous Trees, and Conifers. See list below.): Apply 2-3 qts. in at least 25 gals. water per acre in fall or spring at least one year after transplanting. Do not apply more than once per calendar year. Do not apply more than 3 qts./acre per calendar year.

**CHRISTMAS TREE PLANTINGS AND SHELTER BELTS** (See list below): Remove weed growth before application. Apply 2-4 qts. in at least 25 gals. of water per acre after transplanting. Use the same rate for annual maintenance applications. For quackgrass control apply 4 qts. per acre in the fall or apply a split application of 2 qts. per acre in the fall plus 2 qts. per acre in early spring after quackgrass begins growth. In Oregon, and Washington do not apply to Christmas trees or shelterbelts sooner than one year after transplanting. Do not use SIMAZINE 4L on seedbeds or cutting beds. Do not apply to Christmas tree or shelter belt transplants less than three years of age. Do not apply more than once a year, except as directed for quackgrass control. Do not apply more than 4 qts./acre per calendar year.

Apply SIMAZINE 4L to these species of trees and shrubs, as recommended above:

American elm	Douglas fir	<i>Pieris</i> spp. (max. 3.2 qts./A)
Austrian pine	eucalyptus	red cedar
arborvitae	Fraser fir	red oak
balsam fir	hemlock	red pine (Norway pine)
barberry	holly ( <i>Ilex</i> spp.)	red spruce
blue spruce	honey locust	Russian olive
boxelder	juniper	Scotch pine
bush honeysuckle	lodgepole pine (shore pine)	Siberian elm
caragana	Mugho pine	white cedar
Cotoneaster	Norway spruce	white fir
dogwood	Oregon grape ( <i>Mahonia</i> spp.)	white pine
		white spruce
		yew ( <i>Taxus</i> spp.)

#### **SIMAZINE 4L Plus Surflan® Tank Mix For Christmas Tree Plantings**

Use this tank mix for preemergence control of weeds listed on the Surflan 75W (or Surflan A.S.) label on Christmas tree plantings. Use on field grown conifer species listed on the labels for each herbicide plus grand fir, alpine fir, Engelmann spruce, black spruce, Colorado blue spruce, Coulter pine, giant redwood and Veitchi fir.

Broadcast the mixture as a directed spray to the soil surface or as an otop spray using 2 - 4 qts. of SIMAZINE 4L and 2.67 - 5.33 lbs. of Surflan 75W (or 2-4 qts. of Surflan A.S.). Apply in sufficient water per acre to uniformly treat the area. Follow otop sprays with sprinkler irrigation to move the herbicide from leaf surfaces to the soil. Remove weed growth before application. Mix weed residues, prunings or trash into the soil, or remove them before treatment. Soil should be in good tilth and free of clods at time of application. Shallow cultivation (1 - 2 inches) after treatment will not reduce weed control. Observe and follow all precautions and limitations on both labels. Note: To avoid plant injury: Do not use on seedbeds or on unrooted cuttings, Do not use in greenhouses or other enclosed areas.

#### **TURF GRASSES FOR SOD (FLORIDA ONLY)**

St. Augustine, Centipede, and Zoysia Grass: Apply 2-4 qts. per acre according to soil texture as indicated below.

Muck or peat	4 qts.	Old beds: within 2 days after lifting of sod
		New beds: 3-4 days after sprigging or plugging
Sandy soil	2 qts.	Old beds: within 2 days after lifting of sod
		New beds: 7-10 days after sprigging or plugging

Apply an additional 2 qts. on muck or peat, or 1 qt. on sandy soil if weed growth recurs.

SIMAZINE 4L must be watered in immediately after application if applied at rate greater than 2 qts per acre.

Precautions: To avoid crop injury: (1) Do not apply within 30 days prior to cutting or lifting. (2) Do not apply in combination with surfactants or other spray additives. (3) Use only on turfgrass reasonably free of infestations of insects, nematodes, and diseases. (4) On newly sprigged turfgrass, temporary slowing of growth may follow application.

#### **TURF GRASSES FOR SOD (IN STATES EXCEPT FLORIDA)**

Bermudagrass, Centipedegrass, St. Augustinegrass, and Zoysia Grass

Apply SIMAZINE 4L after September 1 (after October 1 for annual bluegrass) before emergence of winter annual weeds. SIMAZINE 4L will control annual bluegrass, burclover, lawn burweed, common and mouseear chickweed, corn speedwell, henbit, hop clover, spurweed, and parsley-piert. SIMAZINE 4L will also control these weeds soon after emergence. For control of summer annual weeds listed in the Product Information section of this label, apply SIMAZINE 4L in late winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre.

Irrigate with ½ inch of water if rainfall does not occur within 10 days after preemergence treatment.

Where annual bluegrass is the major weed, use 1 qt./A (22 ml or 0.75 fl. oz. per 1,000 sq. ft.). Use 2 qts./A (22-44 ml or 0.75-1.5 fl. oz. per 1,000 sq. ft.) for control of other weeds. However, do not exceed 1 qt./A per treatment on newly sprigged turfgrass or on hybrid bermudagrass such as Tiflawn, Tifway, and Ormond.

For control of summer annuals which emerge after the initial application, apply an additional 1 qt./A at least 30 days after the initial application, but not after June 1. However, do not make more than two applications per year.

Apply no more than 2 qts per acre in a single application with a calendar year maximum of 3 qts per acre. Do not apply more than two times in a calendar year.

Precautions: On newly sprigged turfgrass, hybrid bermudagrass, nondormant bermudagrass, or nondormant zoysia grass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury, (1) Use only on turfgrass

reasonably free of infestations of insects, nematodes, and diseases. (2) Do not use north of NC (except may be used in the Virginia Coastal Plains) or west of Highway 281 in Texas and Oklahoma. (3) Do not use on muck or alkaline soils. (4) Do not apply over the rooting area of trees or ornamentals not listed on this label. (5) Do not seed or overseed with desirable turfgrass within 4 months before or 6 months after treatment. (6) Do not apply this product on newly seeded grasses until they have overwintered and have a well-developed rhizome system. (7) Do not exceed 2 qts. product/A within 12 months of seeding grasses.

Do not graze or feed turf clippings to animals.

#### **TURFGRASS FOR FAIRWAYS, LAWNS, AND SIMILAR AREAS**

Bermudagrass, Centipedegrass, St. Augustinegrass, and Zoysia Grass

Apply SIMAZINE 4L after September 1 (after October 1 for annual bluegrass) before emergence of winter annual weeds. SIMAZINE 4L will control annual bluegrass, burclover, lawn burweed, common and mouseear chickweed, corn speedwell, henbit, hop clover, spurweed, and parsley-piert. SIMAZINE 4L will also control these weeds soon after emergence. For control of summer annual weeds listed in the Product Information section of this label, apply SIMAZINE 4L in late winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre.

Irrigate with ½ inch of water if rainfall does not occur within 10 days after preemergence treatment.

Where annual bluegrass is the major weed, use 1 qt./A (22 ml or 0.75 fl. oz. per 1,000 sq. ft.). Use 2 qts./A (22-44 ml or 0.75-1.5 fl. oz. per 1,000 sq. ft.) for control of other weeds. However, do not exceed 1 qt./A per treatment on newly sprigged turfgrass or on hybrid bermudagrass such as Tiflawn, Tifway, and Ormond.

For control of summer annuals which emerge after the initial application, apply an additional 1 qt./A at least 30 days after the initial application, but not after June 1. However, do not make more than two applications per year.

Precautions: On newly sprigged turfgrass, hybrid bermudagrass, nondormant bermudagrass, or nondormant zoysia grass, temporary slowing of growth and yellowing may occur following application. To avoid turf injury, (1) Use only on turfgrass reasonably free of infestations of insects, nematodes, and diseases. (2) Do not use on golf greens. (3) Do not use north of NC (except may be used in the Virginia Coastal Plains) or west of Highway 281 in Texas and Oklahoma. (4) Do not use on muck or alkaline soils. (5) Do not apply over the rooting area of trees or ornamentals not listed on this label. (6) Do not seed or overseed with desirable turfgrass within 4 months before or 6 months after treatment. (7) Do not apply this product on newly seeded grasses until they have overwintered and have a well-developed rhizome system. (8) Do not exceed 2 qts. product/A within 12 months of seeding grasses.

Note: Do not graze or feed turf clippings to animals or illegal residues may result.

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