



9779-296

3/18/2004

Page 1814

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

WASHINGTON, D.C. 20460

OFFICE OF
PREVENTION, PESTICIDES
AND TOXIC SUBSTANCES

MAR 18 2004

Agriliance LLC, Inc, c/o Alice Walker Consulting
481 Country Club Drive
Senatobia, MS 38668

Dear Ms. Walker:

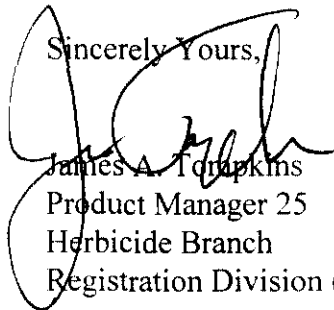
Subject: Label Changes to Agrisolutions Simazine 4L
EPA Registration No.9779-296
Your submission E-mailed March 17, 2004

The Labeling referred to above submitted in connection with the application under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable if you make the following changes:

1. Add "Pesticide" to "Storage" to form the heading "Pesticide Storage".
2. Correct the page numbering on the label. You have two page 1's etc.
3. Add Aerial Spray Drift Mitigation Language to the label. Suggested language is attached to this letter.

This amended labeling supercedes all previously accepted ones. A stamped copy of the labeling is enclosed for your records. Submit two (2) copies of your final printed labeling incorporated the above change before you release the product for shipment.

Sincerely Yours,



James A. Tompkins
Product Manager 25
Herbicide Branch
Registration Division (7505C)

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 Length-For some use patterns, reducing the effective boom length to less than $3/4$ of the wingspan or rotor length may further reduce drift without reducing swath width.

Application-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 cross-wind, the swath will be displaced downward. 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.).

Wind

Drift potential is lowest 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. 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

Under the heading **Spray Drift Management** the text should read as follows:

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 to agricultural field crops. 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 $3/4$ the length of the wingspan or rotor.
2. Nozzles must always point backward parallel with the air stream and never be pointed downwards more than 45 degrees. 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 Aerial Drift Reduction Advisory Information.

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

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 set 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 connected 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).



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 eyelids 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. Call a poison control center or doctor for treatment advice.

IF ON SKIN: 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 emergency call toll free 1-877-424-7452.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

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

Personal Protective Equipment:

Some materials that are chemically resistant to this product are listed below. If you want more options, follow the instructions for category A on the EPA chemical resistant chart.

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

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

USER SAFETY RECOMMENDATIONS

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

Read Additional PRECAUTIONARY STATEMENTS.

EPA Reg. No. 9779-296

Distributed By
Agrilience, LLC
P.O. Box 64089, St. Paul, MN 55164-0089

ACCEPTED
with COMMENTS
in EPA Letter Dated
MAR 18 2004

Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.

9779-296

EPA Est. No. _____

NET CONTENTS
_____ GALS.

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ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters. Simazine is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. Simazine has been found in ground water as a result of agricultural use. Users are advised not to apply simazine where the water table (ground water) is close to the surface and where the soils are very permeable, i.e., well-drained soils such as loamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

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 through any type of irrigation system.

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.

AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the restricted entry interval (REI) of 12 hours. 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 made out of any waterproof material such as polyethylene, or polyvinyl chloride, 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.

Keep unprotected persons or pets out of treated areas until sprays have dried.

PESTICIDE STORAGE AND DISPOSAL

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

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. In case of fire or other emergency, report at once by toll-free telephone to 800-424-9300.

DISPOSAL

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: Plastic Containers-Triple rinse (or equivalent). Then offer for recycling 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. Metal Containers-Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by other procedures approved by state and local authorities.

GENERAL 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.

To avoid spray drift, do not apply under windy conditions. Avoid spray overlap, as crop injury may result.

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.

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.

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:

- Add 1 pint of fertilizer to each of 2 one-quart glass jars with tight lids.
- 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™ Unite® and Combine®
(NOTE: Complex, Combine, and Unite are not registered for use in California.)
- 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 wettable 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:

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

- 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.

AERIAL APPLICATION: Use aerial application only where specified in the use directions. Screens in nozzles as well as those in suction and inline strainers should be no finer than 50-mesh. Wash sprayer thoroughly with clean water immediately after use. Do not apply when weather conditions favor drift from areas treated. Apply this product only as specified on this label. Do not use on any crop in Kern County, California.

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. For aerial application, use a minimum of one gallon of water for each 1 qt. of SIMAZINE 4L per acre, unless specified differently.

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.

ALMONDS, PEACHES, and NECTARINES (CA only): Apply 1 - 2 qts. per acre in a 2 - 4 ft. band on each side of the tree row. Apply before weeds emerge in late fall or early winter. Weeds controlled include burclover, common chickweed, wild mustard and shepherdspurse. Apply only once per year. To avoid crop injury; Do not treat groves less than 3 years old. Do not use on the Mission (TX) variety of almonds. Do not use on almond trees propagated on plum rootstocks. Do not use on soil with less than 1% organic matter. Do not replant almonds, peaches or nectarines in treated soil for 12 months after treatment. Do not treat areas where water will accumulate.

APPLES, PEARS, SOUR CHERRIES: Apply 2-4 qts. per acre.

AVOCADOS (California and Florida only): Apply 2-4 qts. per acre after final preparation in grove. Do not apply to sandy soil.

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. 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.

CRANBERRIES (Massachusetts): Apply up to 4 qts. per acre either before spring growth begins or in the fall after harvest. Other areas: Apply 2 qts. per acre before spring growth begins.

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. 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 2-4.8 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.

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.

California: Apply 2-4 qts. per acre in a single application; or apply 2 qts. per acre in the fall and 2 qts. per acre in the spring. Do not use in the Imperial, Coachella, or Palo Verde Valleys, or crop injury may occur.

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 balsamapple vine and spanishneedles, and partial control of honeyvine milkweed, apply 8 qts. of SIMAZINE 4L as a single application in the spring as a 50% band application to the grove acre. 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.

Texas (Grapefruit and Oranges only): Apply 4-4.8 qts. per acre.

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

9 7 14

freeze. 4) In Florida, do not exceed 6 qts. of SIMAZINE 4L during any one growing season.

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. Repeat applications as necessary. 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.

PEACHES, PLUMS, SWEET CHERRIES: Apply 2-4 qts. per acre. Apply in late fall to early spring prior to weed emergence. For peaches, use only in Arkansas, Louisiana, Missouri, Oklahoma, Texas and the states east of the Mississippi River. 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. Do not use west of the Pecos River in TX or in AZ, CA or NM. Do not make applications to transplanted trees that have been established less than two years in the grove.

STRAWBERRIES (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. To avoid crop injury, make only 1 application per growing season. Do not apply within 4 months after transplanting.

WALNUTS: Apply 2-4 qts. per acre. 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 General 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.

ALMONDS: For use in California only.

SIMAZINE 4L PLUS GRAMOXONE EXTRA TANK MIX COMBINATION FOR WEED CONTROL IN ALMONDS

SIMAZINE 4L plus Gramoxone Extra tank mix combinations are effective on almonds for killing existing vegetation and for residual control of the annual broadleaf and grass weeds listed under General Information. This combination is also effective for top kill and suppression of perennial weeds. Apply the rate shown in the following table as a tank mix in 50-200 gals. of water per acre to the orchard floor avoiding contact with nuts, foliage or stems. Apply when the weeds and grasses are succulent and the new growth is from 1-6 inches tall. Since SIMAZINE 4L 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*
Almonds*	1-2 qts.	1.5 - 2.5 qts.

* Do not apply to almonds when nuts are on the ground during the harvest period. Do not treat trees established in the grove less than 3 years. Do not treat Mission variety almonds. Do not apply to almond trees propagated on plum rootstocks. Do not replant almonds in treated soil. Do not apply on gravelly, sand or loamy soil or on soil with less than 1% organic matter. Do not treat areas where water will accumulate.

PECANS: Apply the rate in the following table before weeds emerge in the spring.

Soil Texture	Rate per acre
Sandy, loamy sand	Do not use
Loam or clay soil low in organic matter	2-3 qts.
Clay soil high in organic matter	3 qts. - 1 gal.

Do not use west of the Pecos River in Texas or in New Mexico, Arizona or California. Do not make applications to transplanted trees that have been established less than two years in the grove as injury may occur. Do not apply when nuts are on the ground or illegal residues may result. Do not allow animals to graze treated areas.

SIMAZINE 4L Plus Roundup® 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:

- | | |
|---|------------------------------|
| Almonds**(CA only) | Macadamia nuts** |
| Apples* | Orange***(AZ, CA, FL and TX) |
| Avocados*(CA and FL only) | Peaches* ¹ |
| Cherries (sour and sweet**** ²) | Pears* |
| Filberts** | Pecans** |
| Grapefruit***(CA, FL, and TX) | Plums**** ² |
| Grapes* | Walnuts** |
| Lemons*(AZ and CA) | |

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.

¹Limited to AR, CA, LA, MO, OK, TX and states east of the Mississippi River. For CA, see specific directions in the Almonds, Nectarines, and Peaches (CA only) section.

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

SIMAZINE 4L Plus Solicam® 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 4 qts. per acre of SIMAZINE 4L 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.

11 8 14

SIMAZINE 4L Plus Surflan® Tank Mix

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

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

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. Use the appropriate rate in the table below. 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 (including dark prairie soils of Corn Belt)	3 qts.
Organic soil: Peat, muck and high organic clay	4 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 2 quarts of SIMAZINE 4L preemergence the following spring.

Precautions: 1) Do not apply more than 4 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 3 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.

Note: Do not graze treated areas as illegal residues may result.

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.

*NOTE: Tank mix with Atrazine 4L is not registered for use in California.

12 8 14

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 General 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+® 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 General 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 SIMAZINE 4L 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 (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.

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 California, 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.

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

American elm	Douglas fir	palm* (2 qts./A)
Austrian pine	eucalyptus	<i>Pieris</i> spp. (max. 3.2 qts./A)
arborvitae	Fraser fir	red cedar
balsam fir	hemlock	Scotch pine
barberry	holly (<i>Ilex</i> spp.)	Siberian elm
Bishop pine*	honey locust	red spruce
blue spruce	juniper	Russian olive
bottle brush*	knobcone pine*	red oak
boxelder	lodgepole pine (shore pine)	red pine (Norway pine)
bush honeysuckle	Monterey pine*	white cedar
caragana	Mugho pine	white fir
carob*	Norway spruce	white pine
cotoneaster	oleander*	white spruce
dogwood	Oregon grape (<i>Mahonia</i> spp.)	yew (<i>Taxus</i> spp.)
*For California only		

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 overtop 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 overtop 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.

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.

TURFGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION*, AND SIMILAR AREAS

*In states other than Florida. For use on turfgrass for sod in Florida, see "Turfgrass for Sod (Florida only)" section above.

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 General 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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Seller warrants that the product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with directions under normal conditions of use. **SELLER MAKES NO OTHER EXPRESS OR IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, NOR IS ANY REPRESENTATIVE OF SELLER AUTHORIZED TO MAKE ANY SUCH WARRANTY OR MODIFY THESE TERMS.** This warranty does not extend to the storage, handling or use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such storage, handling or use. Seller shall not be responsible for incidental or consequential damages, if any, resulting from a breach of warranty.