

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on skin. Do not breathe spray mist. Wash thoroughly after handling. If swallowed, induce vomiting. Get medical attention. If inhaled, contact your nearest Poison Control Center. If on skin, remove by washing. Get medical attention if irritation persists. If in eyes, flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes.

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 as selective rates in agricultural crops and ornamental plantings. When used at higher, non selective rates in non 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 soil conditions and lack of rainfall following application may necessitate shallow cultivation.

SIMAZINE 4L controls most annual broadleaf and grass weeds such as

Amaranthus	Crabgrass (Digitaria spp.)	Mustard	Shieldsgrass
Annual Bluegrass	Downy Brome (Cheat)	Nightshade	Silver Hairgrass
Annual Morningglory	Froeweed	Pigweed	Smartweed
Annual Ryegrass	Flora's Paintbrush	Prickly Lettuce	Spanish Needles
Barnyardgrass (Watergrass)	Florida Pusley	Purslane	Tansymustard
Brachiaria spp.	Foxtails	Ragweed	Wild Oats
Carleweed	Goosegrass	Rattail Fescue	Wiregrass
Carpetweed	Jungleice	Russian Thistle	Witchgrass
Common Chickweed	Lambsquarters	Shepherdspurse	

SIMAZINE 4L is non-corrosive to equipment, non flammable, and has low electrical conductivity.

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.

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.

Avoid application directly to animals or humans. Although it is unnecessary for flagmen or loaders to wear protective clothing or equipment, care should be taken to avoid inhalation of dust or spray mist, or contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

Wash sprayer thoroughly with clean water immediately after use.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.

CONTAINER DISPOSAL: Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult Federal, State or Local Disposal Authorities for approved alternate procedures such as limited open burning.

Do not apply when weather conditions favor drift from areas treated.

Apply this product only as specified on this label.

Add SIMAZINE 4L directly to the spray tank partially filled with clear water, add any tank mix ingredients and then add remainder of water and provide constant agitation during mixing to keep mixture in suspension. Agitation should not be so violent as to cause air bubbles to form in 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 gal. 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 or spot applications around trees in fruit or nut plantings, reduce the broadcast rate of SIMAZINE 4L and water per acre in proportion to the area actually sprayed.

APPLES, PEARS, SOUR CHERRIES: Apply 2.4 Qts. per acre.

AVOCADOS: California only. Apply 2.4 Qts. per acre after final preparation of grove. **PRECAUTION:** 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 1/2 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 plus 2 Qts. per acre in the spring, when quackgrass is actively growing. **NOTE:** Do not apply when fruit is present.

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.

PRECAUTION: 1) If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. 2) Do not use on sandy soil.

NOTE: Do not apply when nuts are on the ground during the harvest period.

GRAPES: Apply 2.4-8 Qts. per acre any time between harvest and early spring.

PRECAUTION: Do not use in vineyards established less than three years.

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. Do not use in the Imperial, Coachella, or Riverside Valleys.

Florida (Grapefruit and Oranges only) Apply 6.4-9.6 Qts. per acre in the spring. Texas (Grapefruit and Oranges only) Apply 4.4-8 Qts.

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

MACADAMIA NUTS: Apply 2.4 Qts. in 50 gals. of water per acre before harvest and just prior to weed emergence. Repeat application as necessary. Do not apply when nuts are on the ground during the harvest period.

OLIVE S: 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.

PRECAUTIONS: 1) Do not apply to sandy or gravelly soil. 2) Peaches: use only in Ark., La., Mo., Okla., Tex., and the states east of the Miss. River. 3) Plums and sweet cherries: use only in Mo. and states east of the Miss. River except Tenn.

WALNUTS: Apply 2.4 Qts. per acre.

PRECAUTIONS: 1) Do not apply to sandy soil. 2) Leveling and furrowing operations after application will lessen effectiveness of weed control.

NOTE: Do not apply when nuts are on the ground.

SIMAZINE 4L plus Paraquat CL Tank Mix Combination For Weed Control In Apples, Pears and Peaches

SIMAZINE 4L plus Paraquat CL tank mix combinations is effective in apple, peach, and pear orchards for kill of 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 Paraquat CL
Apples		
Pears	2.4 Qts.	1.2 Qts.
Peaches**	1.6-4 Qts.	1-2 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 organic matter soil.

PRECAUTIONS: 1) Make only one application per year. 2) Make applications only in orchards or groves where trees have been established one year or more. 3) Do not spray under windy conditions and use a shield for young trees.

Note: Do not allow animals to graze treated areas.

SIN

FLOW

ACTIVE INGREDIENT
Simazine (2)
INERT INGREDIENTS
TOTAL

KEEP

STATEMENT (C)

If swallowed, place finger in mouth and anything by mouth.

If inhaled, remove from exposure and breathe fresh air.

If on skin, remove clothing and wash with plenty of water.

If in eyes, flush with plenty of water for 15 minutes.

See Side Panel for First Aid.

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orchard or vineyard floor avoiding contact with fruit, berries or groves where trees have been established one year or more as noted otherwise. Recommended rates are based on applications around trees in fruit or nut plantings. Reduce rate in proportion to the area actually sprayed.

2 Qts. per acre after final preparation of grove. PRECAUTION: Do not apply to fruit trees, boysenberries, loganberries, raspberries.

Apply a split application of 2 Qts. per acre in the spring plus 2 Qts. per acre in the fall or split the application applying 2 Qts. per acre in the spring and 2 Qts. per acre in the fall or apply a split application of 2 Qts. per acre in the spring and 2 Qts. per acre in the fall.

Apply a split application of 2 Qts. per acre in the spring and 2 Qts. per acre in the fall or apply a split application of 2 Qts. per acre in the spring and 2 Qts. per acre in the fall.

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SIMAZINE 4L

FLOWABLE HERBICIDE

ACTIVE INGREDIENT:
Simazine (2-Chloro-4, 6-bis (ethylamino)-s-triazine) . . . 42.8%
INERT INGREDIENTS: . . . 57.2%
TOTAL: . . . 100.0%

ACCEPTED

FEB 26 1980

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 1812-250

1812-250

CAUTION:

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If swallowed, drink 1 or 2 glasses of water. Induce vomiting, by placing finger in back of throat. Call a Physician. Never give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

If on skin, remove by washing.

If in eyes, flush with plenty of water. Get medical attention if irritation persists.

See Side Panel For Additional Precautionary Statements.

GRIFFIN CORPORATION
VALDOSTA, GEORGIA 31601
NET CONTENTS 2 1/2 gallons



EPA Reg. No. 1812-250
EPA Est No. 1812-GA-3

CORN: Apply 2.4 Qts. per acre at planting or after harvest if ratoon crop is to be weeded or sugarcane emerge. SIMAZINE 4L may also be applied interline-directed or over the top to provide continuing control of germinating weeds.

Soil Texture	Broadcast rate
Coarse textured soil (sand, loam, sand, sandy loam)	2 Qts.
Medium textured soil (silt loam and clay loam low in organic matter)	2.4 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)	3 Qts.
	4 Qts.

For control of grasses, Apply 3.4 Qts. per acre in the fall. Plow two to three weeks later, or delay plowing until spring. Do not plant a crop except corn in the spring following a grass treated area.

NOTE: If weeds develop prior to planting under relatively dry conditions, a shallow cultivation will better weed control.

PRECAUTIONS: 1) Do not apply more than 4 Qts. of SIMAZINE 4L to corn in any one year. SIMAZINE 4L should not be planted to any crop except corn until the following year. 2) After harvest of a treated crop, plow and thoroughly till the soil in fall or spring to bury the weeds. 3) Do not apply SIMAZINE 4L preplant incorporated in corn in the High Plains and Intermountain West except in central and western Kansas, western Nebraska, western Oklahoma, and Texas where rainfall is sparse and erratic or where irrigation is required. 4) In the High Plains, rainfall is sparse and erratic or where irrigation is required, use SIMAZINE 4L only when corn is to follow corn, or a crop of untreated corn is to follow a crop of treated corn. 5) In western Minnesota and eastern parts of the Dakotas, Nebraska, and part of soybeans following corn treated with SIMAZINE 4L if more than 2 Qts. of SIMAZINE 4L equivalent rate in a band was applied as injury may occur. 6) Do not plant sugar beets, including dry beans, spring seeded small grains, or small seeded legumes and grasses. SIMAZINE 4L application as injury may occur.

SIMAZINE 4L Plus ATRAZINE 4L Tank-Mix Combination Control in Corn

The tank mix combination of SIMAZINE 4L plus ATRAZINE 4L may be applied either before planting corn but before weeds emerge to control early germinating annual weeds or grasses. One application will control most annual broadleaf and grass weeds including crabgrass, barnyardgrass, foxtail, velvetleaf, carpetweed, morningglory, lambquarters, ragweed.

Preplant Application: Apply the tank mixture as a broadcast treatment in the spring before planting corn but before weeds emerge to control early germinating annual weeds or grasses. One application will control most annual broadleaf and grass weeds including crabgrass, barnyardgrass, foxtail, velvetleaf, carpetweed, morningglory, lambquarters, ragweed.

Preemergence Application: Apply the tank mixture during or shortly after planting but before weeds emerge.

Soil	Preplant and preemergence rates in 30-40 gals. of water per acre
Coarse textured soil (sand, loam, sand, sandy loam)	1 Qt.
Medium textured soil (silt loam and clay loam low in organic matter)	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.

SUGARCANE: Apply 2.4 Qts. per acre at planting or after harvest if ratoon crop is to be weeded or sugarcane emerge. SIMAZINE 4L may also be applied interline-directed or over the top to provide continuing control of germinating weeds.

PRECAUTIONS: 1) Do not apply more than one 2.4 Qts. application over the plants. 2) Do not apply after "close in." 3) Total application should not exceed 4.8 Qts. per acre crop cycle.

NOTE: Do not feed or graze treated forage to livestock.

GRASSES GROWN FOR SEED (Pacific Northwest only): Perennial ryegrass, Hairy woodgrass, orchardgrass, tall fescue and fine fescue such as Mahoe, Ranier, Pennlawn, Chew, species. For the control of broadleaf weeds and annual grasses including annual ryegrass, silver hairgrass, and downy brome (cheat), apply 2 Qts. of SIMAZINE 4L in a minimum of 30 gals. of water per acre as soon as fall rains start. Early application is important.

PRECAUTION: Apply only to grasses from which at least one seed crop has been cut.

NOTE: Allow 30 days between last application and grazing of dairy and beef cattle and 60 days between the last application and cutting of hay.

CORN: Water-soluble solutions or complete liquid formulations of SIMAZINE 4L may be applied to corn at any time after emergence. Do not apply after corn has emerged as there is a risk of injury to the crop.

Preemergence: Apply before weeds and corn emerge. Apply at the rate of 1.5 to 4.0 Qts. per acre. Apply in the spring after plowing at the appropriate rate for soil texture. Apply before corn emergence. Best results will be obtained when SIMAZINE 4L is applied within 2 weeks before planting.

NOTE: Under dry weather conditions, the rate of application should be reduced to 1.5 Qts. per acre.

Soil Texture	Broadcast rate per acre
Coarse textured soil Sand, silt, and loam that is low in organic matter	2.0 Qts.
Medium textured soil Soils containing a moderate amount of clay or loam	2.4 Qts.
Fine textured soil Loam that is high in organic matter and clay, including dark prairie soils of Corn Belt	3.0 Qts.
Organic soil Peat, muck, and high organic clay	4.0 Qts.

To control quackgrass, Apply 2.4 Qts. per acre in the fall. Plow two to three weeks later, or fence, or apply herbicide, delay plowing until spring. Do not plant any crop except corn in the spring following treatment. Do not graze treated area.

NOTE: If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

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 is a dry year or cut. 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 crops, regardless of the rate used. 4) If more than 3 Qts. of SIMAZINE 4L is used per acre for 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 intermediate 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 intermediate 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 was 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.

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	SIMAZINE 4L	ATRAZINE 4L
Coarse textured soil sand, loamy sand, sandy loam	1.0 Qt.	1.0 Qt.
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.

SUGARCANE: Apply 2.4 Qts. per acre at planting or after harvest if ratoon crop is to be grown, but before weeds or sugarcane emerge. SIMAZINE 4L may also be applied interline directed or over the sugarcane to provide continuing control of germinating weeds.

PRECAUTIONS: 1) Do not apply more than one 2.4 Qts. application over the plants or more than two interline directed applications. 2) Do not apply after "close in". 3) Total application should not exceed 10 Qts. per acre crop cycle.

NOTE: Do not feed or graze treated forage to livestock.

GRASSES GROWN FOR SEED (Pacific Northwest only): Perennial ryegrass, Highland or Astoria Bentgrass, orchardgrass, tall fescue and fine fescues such as Illahee, Ranier, Pennlawn, Chewings and related species. For the control of broadleaf weeds and annual grasses including annual ryegrass, rattail fescue, silver hairgrass, and downy brome (cheat), apply 2 Qts. of SIMAZINE 4L in a minimum of 15 gals. of water per acre as soon as fall rains start. Early application is important.

PRECAUTION: Apply only to grasses from which at least one seed crop has been cut.

NOTE: Allow 30 days between last application and grazing of dairy and beef cattle and sheep, and allow 60 days between the last application and cutting of hay.

NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTER BELTS

NURSERIES (See list below): Apply 2.0 Qts. per acre at least 25 gals. water per acre in fall or spring at least one year after transplanting.

CHRISTMAS TREE PLANTING AND SHELTER BELTS (See list below): Remove weed growth before application. Apply 2.4 Qts. per acre 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 shelter belts sooner than one year after transplanting.

PRECAUTIONS: 1) Do not use SIMAZINE 4L on seedbeds or shelter belts. 2) Do not apply to Christmas tree or shelter belt transplants less than three years old. 3) 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	boxelder	honey locust	Scotch pine	red oak
Austrian pine	bush honeysuckle	juniper	Siberian elm	red pine
arbutus	aragana	Mugho pine	Fraser fir	(Norway pine)
balsam fir	cotoneaster	Norway spruce	hemlock	white cedar
barberry	dogwood	Oregon grape	red spruce	white pine
blue spruce	Douglas fir	(Mahonia spp.)	Russian olive	white spruce
		red cedar		Yew (Taxus spp.)

TURF GRASSES FOR SOD

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 springing or plugging
Sandy soil	2 Qts.	Old beds	within 2 days after lifting of sod
		New beds	7 10 days after springing or plugging

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

PRECAUTIONS: 1) Do not apply within 30 days before cutting or lifting. 2) Do not use north of North Carolina.

VEGETABLE CROPS

ASPARAGUS (Established): Apply 2.4 Qts. per acre to beds established one year or more. Apply once per year either after disking in the spring before weeds emerge, or following harvest after removal of existing weed growth. Spring application must be made at least 3 days before first cutting.

PRECAUTIONS (Washington and Oregon only): 1) Do not use on sand, loamy sand, or gravelly areas of fields as crop injury may result. 2) Do not allow irrigation water to stand or to form pools in the field as injury may occur.

ARTICHOKEs: Apply 2.4 Qts. per acre as directed spray after the last fall tillage.

PRECAUTIONS: 1) Do not apply to sandy soil. 2) Apply only once per year.

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Do not use this product for nonselective weed control on land to be cropped, near adjacent desirable trees, shrubs, or plants, or in greenhouses, as injury may occur.

Best results are obtained when SIMAZINE 4L is applied before weeds emerge. If weed growth has begun and removal is not feasible, include a contact or translocated herbicide in the spray.

SIMAZINE 4L can be used to provide long term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumber yards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, roadsides, and lanes. Aerial applications may be made where it is feasible.

Use at least 1 gal. of water for each 25.6 Oz. of SIMAZINE 4L; use more water if practical for both ground and aerial applications.

To control annual broadleaf and grass weeds including barnyardgrass, cheat, crabgrass, lambsquarters, foxtail, ragweed, puncturevine, and turkey mullen, apply 4.8 to 10 Qts. per acre.

To control most annual and many perennial broadleaf and grass weeds including quackgrass, bluegrass, redtop, burdock, Canada thistle, orchardgrass, purpletop, smooth brome, dogfennel, and plantain, apply 2.5 to 5 gallons per acre.

To control hard to kill perennial weeds (including biithistle and sowthistle) apply 5 gallons per acre.

For longer residual control in regions of high rainfall and long growing season, apply 5 to 10 gallons per acre.

Follow directions carefully. Timing and method of application, weather, and crop conditions, mixtures with other chemicals not specifically recommended, and other influencing factors in the use of this product are beyond the control of the seller. Buyer assumes all risks of use, storage or handling of this material not in strict accordance with directions given herein.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, inhaled or absorbed through the skin. Do not get in eyes or on skin. Do not breathe spray mist. Wash thoroughly after handling. If swallowed, induce vomiting. Get medical attention. If inhaled, contact your nearest Poison Control Center. If on skin, remove by washing. Get medical attention if irritation persists. If in eyes, flush with plenty of water. Get medical attention if irritation persists.

ENVIRONMENTAL HAZARDS

Keep out of lakes, streams or ponds. Do not contaminate water by cleaning of equipment, or disposal of wastes.

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 as selective rates in agricultural crops and ornamental plantings. When used at higher, non-selective rates in non-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 soil conditions and lack of rainfall following application may necessitate shallow cultivation.

SIMAZINE 4L controls most annual broadleaf and grass weeds such as:

Amaranthus	Crabgrass (Digitaria spp.)	Mustard	Sheldress
Annual Bluegrass	Downey Brome (Cheat)	Nightshade	Silver Hairgrass
Annual Morningglory	Fireweed	Pigweed	Smartweed
Annual Ryegrass	Flora's Paintbrush	Prickly Lettuce	Spanish Needles
Barnyardgrass (Watergrass)	Florida Pusley	Purslane	Tansymustard
Brachiaria spp.	Foxtails	Ragweed	Wild Oats
Carelessweed	Goosegrass	Rattail Fescue	Wiregrass
Carpetweed	Junglerice	Russian Thistle	Witchgrass
Common Chickweed	Lambsquarters	Shepherdspurse	

SIMAZINE 4L is non-corrosive to equipment, non-flammable, and has low electrical conductivity.

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.

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.

Avoid application directly to animals or humans. Although it is unnecessary for flagmen or loaders to wear protective clothing or equipment, care should be taken to avoid inhalation of dust or spray mist, or contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

Wash sprayer thoroughly with clean water immediately after use.

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Do not reuse empty container. Pesticide, spray mixture or rinsate that cannot be used or chemically reprocessed should be disposed of in a landfill approved for pesticides or buried in a safe place away from water supplies.
CONTAINER DISPOSAL: Triple rinse (or equivalent) and dispose in an incinerator or landfill approved for pesticide containers, or bury in a safe place. Consult Federal, State or Local Disposal Authorities for approved alternate procedures such as limited open burning.

Do not apply when weather conditions favor drift from areas treated.

Apply this product only as specified on this label.

Add SIMAZINE 4L directly to the spray tank partially filled with clear water, add any tank mix ingredients and then add remainder of water and provide constant agitation during mixing to keep mixture in suspension. Agitation should not be so violent as to cause air bubbles to form in 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 gal. 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 or spot applications around trees in fruit or nut plantings, reduce the broadcast rate of SIMAZINE 4L and water per acre in proportion to the area actually sprayed.

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

AVOCADOS: California only. Apply 2-4 Qts. per acre after final preparation of grove. **PRECAUTION:** 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 1/2 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 plus 2 Qts. per acre in the spring, when quackgrass is actively growing.

NOTE: Do not apply when fruit is present.

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.

PRECAUTION: 1) If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds. 2) Do not use on sandy soil.

NOTE: Do not apply when nuts are on the ground during the harvest period.

GRAPES: Apply 2-4-8 Qts. per acre any time between harvest and early spring.

PRECAUTION: Do not use in vineyards established less than three years.

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. Do not use in the Imperial, Coachella, or San Jerdes Valleys. Florida (Grapefruit and Oranges only): Apply 6.4-9.6 Qts. per acre in the spring. Texas (Grapefruit and Oranges only): Apply 4-4.8 Qts.

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

MACADAMIA NUTS: Apply 2-4 Qts. in 50 gals. of water per acre before harvest and just prior to weed emergence. Repeat application as necessary. Do not apply when nuts are on the ground during the harvest period.

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.

PRECAUTIONS: 1) Do not apply to sandy or gravelly soil. 2) Peaches: use only in Ark., La., Mo., Okla., Tex. and the states east of the Miss. River. 3) Plums and sweet cherries: use only in Mo. and states east of the Miss. River except Tenn.

WALNUTS: Apply 2-4 Qts. per acre.

PRECAUTIONS: 1) Do not apply to sandy soil. 2) Leveling and furrowing operations after application will lessen effectiveness of weed control.

NOTE: Do not apply when nuts are on the ground.

SIMAZINE 4L plus Paraquat CL Tank Mix Combination For Weed Control in Apples, Pears and Peaches

SIMAZINE 4L plus Paraquat CL tank mix combinations is effective in apple, peach, and pear orchards for kill of 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 Paraquat CL
Apples		
Pears	2-4 Qts.	1-2 Qts.
Peaches**	1-6.4 Qts.	1-2 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 organic matter soil.

PRECAUTIONS: 1) Make only one application per year. 2) Make applications only in orchards or groves where trees have been established one year or more. 3) Do not spray under windy conditions and use a shield for young trees.

Note: Do not allow animals to graze treated areas.

BEST DOCUMENT AVAILABLE

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

CHERRIES: Apply 2-4 Qts. per acre.

Apply 2-4 Qts. per acre after final preparation of grove. PRECAUTION: Do not apply to sandy or gravelly soil.

ANEBERRIES (blackberries, boysenberries, loganberries, raspberries): Apply broadcast or apply a split application of 2 Qts. per acre in the spring plus 2 Qts. per acre in the fall. Use a minimum of 40 gals. of water per acre. For fruit 6 months old use 1/2 the above rate.

Apply 4 Qts. per acre in the fall or split the application applying 2 Qts. per acre in the spring, when quackgrass is actively growing. Do not apply when fruit is present.

Massachusetts: Apply up to 4 Qts. per acre either before spring growth begins or in the fall. Apply 2 Qts. per acre before spring growth begins.

Washington: Apply 2-4 Qts. per acre in the fall or apply a split application of 2 Qts. per acre in the spring.

Planted on a hillside, excessive soil erosion may result from the elimination of quackgrass on sandy soil.

When nuts are on the ground during the harvest period.

Apply 2 Qts. per acre any time between harvest and early spring.

Do not use in vineyards established less than three years.

ORANGES: Arizona (Lemons and Oranges only): Apply a split application of 1.6 Qts. plus 1.6 Qts. per acre in the fall and 1.6 Qts. per acre in the spring. Do not use in the Imperial, Coachella, or Indio Valleys. Oranges only: Apply 6.4-9.6 Qts. per acre in the spring.

Do not use in nurseries. 2) Do not apply to bedded grapefruit, lemons or oranges. 3) Do not apply to trees under stress from freeze damage for one year after application.

Apply 2-4 Qts. in 50 gals. of water per acre before harvest and just prior to weed control as necessary. Do not apply when nuts are on the ground during the harvest period.

per acre following grove preparation in the fall. Repeat annually in midwinter.

VEET CHERRIES: Apply 2-4 Qts. per acre. Apply in late fall to early spring prior to harvest.

Do not apply to sandy or gravelly soil. 2) Peaches: use only in Ark., La., Mo., Okla., and the Miss. River. 3) Plums and sweet cherries: use only in Mo. and states east of Mo.

Apply 2 Qts. per acre. Do not apply to sandy soil. 2) Leveling and furrowing operations after application will reduce control. Do not apply when nuts are on the ground.

plus Paraquat CL Tank Mix Combination For Weed Control In Apples, Peaches and Pears

Paraquat CL tank mix combinations is effective in apple, peach, and pear orchards for control of annual broadleaf and grass weeds listed under General Weeds.

Effective for top kill and suppression of perennial weeds.

Use the following table as a tank mix in 50-200 gals. of water per acre to the orchard floor. Apply when the weeds and grasses are succulent and the trees are full.

Weeds mainly through their roots, rainfall or irrigation is needed to move it into the soil.

Broadcast* SIMAZINE 4L	Rate Per Acre Paraquat CL
2-4 Qts	1-2 Qts
1-6 Qts	1-2 Qts

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

Do not use on sandy or gravelly soil. Use on peaches only in Arkansas, Louisiana, Missouri, Oklahoma, and east of the Mississippi River.

Use low rate on coarse-textured soil and low organic matter soil. Use the high rate on fine-textured soil.

Apply only one application per year. 2) Make applications only in orchards or groves established one year or more. 3) Do not spray under windy conditions and use a shield to protect the operator.

Do not graze treated areas.

SIMAZINE 4L

FLOWABLE HERBICIDE

ACTIVE INGREDIENT:

Simazine (2-Chloro-4, 6-bis (ethylamino)-s-triazine) .. 42.8%

INERT INGREDIENTS: .. 57.2%

TOTAL .. 100.0%

ACCEPTED

FEB 26 1980

Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 1812-250

CAUTION:

KEEP OUT OF REACH OF CHILDREN

STATEMENT OF PRACTICAL TREATMENT

If swallowed, drink 1 or 2 glasses of water. Induce vomiting, by placing finger in back of throat. Call a Physician. Never give anything by mouth to an unconscious person.

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth to mouth. Get medical attention.

If on skin, remove by washing.

If in eyes, flush with plenty of water. Get medical attention if irritation persists.

See Side Panel For Additional Precautionary Statements.

GRIFFIN CORPORATION

VALDOSTA, GEORGIA 31601

NET CONTENTS 2 1/2 gallons

EPA Reg. No. 1812-250

EPA Est. No. 1812-GA-3



CORN: Nitrogen solutions or complete liquid fertilizers may be applied with SIMAZINE 4L. Do not apply after corn has emerged as there is a risk of injury.

Pre-emergence: Apply before weeds and corn emerge. Use the appropriate rate in the spring after plowing at the appropriate rate in the seedbed preparation. If soil is tilled or worked after application, best results will be obtained when SIMAZINE 4L is applied.

NOTE: Under dry weather conditions, preplant applications may be necessary.

Soil Texture

Coarse textured soil:
Sand, silt, and loam that is low in organic matter
Medium textured soil:
Soil containing a moderate amount of clay and organic matter
Fine textured soil:
Loam that is high in organic matter and clay
(including dark prairie soils of Corn Belt)
Organic soil:
Peat, muck, and high organic clay

To control quackgrass: Apply 3-4 Qts. per acre in the fall. Plow, or plow and delay plowing until spring. Do not plant any crop except corn in the treated area.

NOTE: If weeds develop, particularly under relatively dry conditions, better weed control will be obtained.

PRECAUTIONS: 1) Do not apply more than 4 Qts. of SIMAZINE 4L to any crop except corn. 2) Do not apply to any crop except corn. 3) After harvest of a treated crop, plow and thoroughly incorporate the residue. 4) Do not apply SIMAZINE 4L preplant incorporated in corn in the West (including central and western Kansas, western Nebraska, Texas) where rainfall is sparse and erratic or where irrigation is not available. 5) Do not apply SIMAZINE 4L preplant incorporated in corn in the West where rainfall is sparse and erratic or where irrigation is not available. 6) Do not apply SIMAZINE 4L preplant incorporated in corn in the West where rainfall is sparse and erratic or where irrigation is not available. 7) In western Minnesota and eastern parts of Iowa, soybeans following corn treated with SIMAZINE 4L in the fall (equivalent rate in a band) was applied as injury may occur. 8) Do not apply SIMAZINE 4L preplant incorporated in corn in the West (including dry beans), spring seeded small grains or small legumes. SIMAZINE 4L application as injury may occur.

SIMAZINE 4L Plus ATRAZINE 4L Tank-Mix Control in Corn

The tank-mix combination of SIMAZINE 4L plus ATRAZINE 4L controls weeds in corn but before weeds emerge to control early growing grasses. One application will control most annual broadleaf weeds, crabgrass, barnyardgrass, foxtail, velvetleaf, carpetweed, and ragweed.

Preplant Application: Apply the tank mixture as a broadcast before, during, or after final seedbed preparation. If soil is too dry, incorporate SIMAZINE 4L plus ATRAZINE 4L. Best results are obtained within two weeks before planting.

Preemergence Application: Apply the tank mixture during or after emergence.

Soil
Coarse textured soil: sand, loamy sand, sandy loam
Medium textured soil: silt loam and clay loam low in organic matter
Fine textured soil: silt loam and clay loam with medium to high organic matter and clay (including dark prairie soils of the Corn Belt)

SUGARCANE: Apply 2-4 Qts. per acre at planting or after harvest. SIMAZINE 4L may also be applied to provide continuing control of germinating weeds.

PRECAUTIONS: 1) Do not apply more than one 2-4 Qts. application per acre per year. 2) Do not apply after "close" crop cycle.

NOTE: Do not feed or graze treated forage to livestock.

GRASSES GROWN FOR SEED (Pacific Northwest only): For grasses, orchardgrass, tall fescue and fine fescues such as hard fescue, for the control of broadleaf weeds and annual grasses, silver hairgrass, and downy brome (cheat), apply 2 Qts. of SIMAZINE 4L per acre as soon as fall rains start. Early application is important.

PRECAUTION: Apply only to grasses from which at least one crop is harvested. NOTE: Allow 30 days between last application and grazing of livestock. Allow 30 days between the last application and cutting of hay.