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2749-163

ACCEPTED
MAY 22 1987
EPA Reg. No. 2749-163B

Simazine 80W Herbicide

ACTIVE INGREDIENT:

SIMAZINE (2-Chloro-4, 5 bis (ethylamino)-s-triazine)	80%
INERT INGREDIENTS	20%
TOTAL	100%

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT
IF SWALLOWED: Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not give anything by mouth to an unconscious person. Get medical attention.
IF ON SKIN: Wash with plenty of soap and water. Get medical attention if irritation persists.
IF IN EYES: Flush with water for 15 minutes. Get medical attention.

READ ENTIRE BOOKLET FOR COMPLETE
PRECAUTIONARY STATEMENTS

EPA REG NO. 2749-163-AA

PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
AND DOMESTIC ANIMALS
CAUTION

Harmful if swallowed. Wash thoroughly after handling. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

ENVIRONMENTAL HAZARDS
 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 foamy sands. Your local agricultural agencies can provide further information on the type of soil in your area and the location of ground water.

Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.
 Do not apply when weather conditions favor drift from areas treated.

DIRECTIONS FOR USE
 It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

RE-ENTRY STATEMENT
 Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Appropriate protective clothing should consist of HAT, LONG-SLEEVE SHIRT, LONG PANTS AND BOOTS.

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Do not enter treated area without protective clothing until dusts have settled or sprays have dried.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must be given if there is a reason to believe that written warnings cannot be understood by workers. When oral warnings are given, warnings shall be given in a language customarily understood by workers.

Written or oral warnings must include the following information:

CAUTION

(insert area or field description) treated with SIMAZINE 80W Herbicide on (insert date of application.)

Do not enter treated area until sprays have dried.

Because certain states may require more restrictive re-entry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

STORAGE AND DISPOSAL

PROHIBITIONS: Do not contaminate water, food or feed by storage or disposal. Do not store under conditions which might adversely affect the container or its ability to function properly. Such conditions include, but are not limited to, positioning of the container in storage, storage temperature, potential for crushing or damage due to stacking, and penetration of moisture.

STORAGE: Store in a safe manner. Store in original container only. Store in cool, dry place. Reduce stacking height where local conditions, such as humidity or pallet overhang can affect package strength.

STORAGE AND DISPOSAL cont'd.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide and Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Completely empty bag into application equipment. Then dispose of empty bag in a sanitary landfill or by incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

GENERAL INFORMATION

SIMAZINE 80W 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 non-crop areas, it also controls many perennial broadleaf and grass weeds.

Since SIMAZINE 80W enters weeds mainly through their roots, rainfall or irrigation is needed to move it into the rootzone. Very dry soil conditions and lack of rainfall following application may necessitate shallow cultivation.

SIMAZINE 80W controls most annual broadleaf and grass weeds such as:

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|----------------------------|--------------------|------------------|
| Amaranths | Flora's Paintbrush | Rattail Fescue |
| Annual Bluegrass | Florida Pusley | Russian Thistle |
| Annual Morningglory | Foxtails | Shepherdspurse |
| Annual Ryegrass | Goosegrass | Shieldscress |
| Barnyardgrass (Watergrass) | Junglerice | Silver Hairgrass |
| Bracharia spp. | Lambsquarters | Smartweed |
| Carelessweed | Mustard | Spanish Needles |
| Carpelweed | Nightshade | Tansymustard |
| Common Chickweed | Pigweed | Wild Oats |
| Crabgrass (Digitaria spp) | Prickley Lettuce | Wiregrass |
| Downey Brome (Cheat) | Purslane | Witchgrass |
| Fireweed | Ragwood | |

SIMAZINE 80W is non-corrosive to equipment, non-flammable, and has low electrical conductivity.

Store SIMAZINE 80W in a dry place.

SIMAZINE 80W is a wettable powder formulation to be mixed with water and applied as a spray. Make a slurry by adding SIMAZINE 80W to a small quantity of water. Pour the slurry into 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 under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoid application directly to animals or humans. 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.

MIXING INSTRUCTIONS

Make a slurry by adding SIMAZINE 80W to a small amount of water in a separate container. Then pour the slurry into the

spray tank partially filled with clean water, and add the rest of the water.

For ground application where the amount of water is not specified, apply SIMAZINE 80W in 20-40 gals. of water per acre.

For Aerial application, use a minimum of one gal. of water for each 1-1½ lbs. of wettable powder applied per acre, unless specified differently.

BAND TREATMENT

The amount of SIMAZINE 80W needed for band treatment may be calculated by the formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times \frac{\text{broadcast amount}}{\text{rate per acre}} = \text{needed per acre}$$

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 80W and water per acre in proportion to the area actually sprayed.

APPLES, PEARS, SOUR CHERRIES

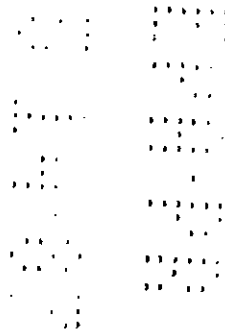
Apply 2½-5 lbs. per acre.

AVOCADOS

California only: Apply 2½-5 lbs. per acre after final preparation of grove. PRECAUTION: Do not apply to sandy soil.

BLUEBERRIES AND CANEBERRIES (blackberries, boysenberries, loganberries, raspberries)

Apply 2½-5 lbs. per acre in the spring or apply a split application of 2½ lbs. per acre in the spring plus 2½ lbs. per acre in the fall. Apply in a minimum of 4 gals. of water per acre. On plantings less than 6 months old use ½ the above rate. To control quackgrass, apply 5 lbs. per acre in the fall or split



the application applying 2½ lbs. per acre in the fall plus 2½ lbs. per acre in the spring, when quackgrass is actively growing.

NOTE: Do not apply when fruit is present.

FILBERTS (Oregon and Washington only)

Apply 2½-5 lbs. per acre in the fall or apply a split application of 2½ lbs. per acre in the fall plus 2½ lbs. per acre in the spring.

PRECAUTIONS: 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 2½-5 lbs. 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 2 lbs. per acre in the spring plus 2 lbs. per acre in the fall.

California: Apply 2½-5 lbs. per acre. Do not use in the Imperial, Coachella, or Palo Verde Valleys.

Florida (Grapefruit and Oranges only): Apply 8-12 lbs. per acre in the spring.

Texas (Grapefruit and Oranges only): Apply 5-6 lbs. per acre.

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 2½-5 lbs. 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 2½-5 lbs. per acre following grove preparation in the fall. Repeat annually in midwinter.

PEACHES, PLUMS, SWEET CHERRIES

Apply 2-5 lbs. per acre. Apply in late fall to early spring prior to weed emergence.

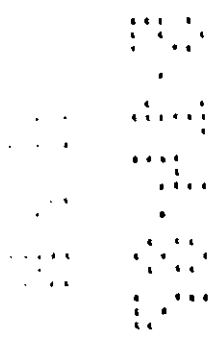
PRECAUTIONS: 1) Do not apply to sandy or gravelly soil. 2) Peaches: use only in LA., MO., and the states east of the Miss. River except TN. 3) Plums and sweet cherries: use only in MO. and states east of the Miss. River except TN.

WALNUTS

Apply 2½-5 lbs. 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.



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CORN

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for SIMAZINE 80W. Do not apply after corn has emerged as there is danger of liquid fertilizers causing crop injury.

Pre-emergence: Apply before weeds and corn emerge. Use the appropriate rate in the table below.

Pre-plant: 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 80W. Best results will be obtained when SIMAZINE 80W is applied within 2 weeks before planting.

NOTE: Under dry weather conditions, preplant applications may give better weed control.

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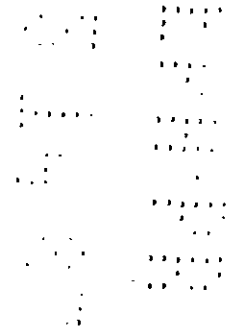
Soil Texture	Broadcast* rate per acre
Coarse-textured soil. Sand, silt, and loam that is low in organic matter	2½ lbs
Medium-textured soil ¹ Soil containing a moderate amount of clay and organic matter	3 lbs
Fine-textured soil ² Loam that is high in organic matter and clay (including dark prairie soils of Corn Belt)	3¾ lbs
Organic soil ³ Peat, muck, and high-organic clay	5 lbs

*For calculation of band treatment rate, see the General information section.

To control quackgrass: Apply 3¾-5 lbs. 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 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 5 lbs. of SIMAZINE 80W to corn in any one year. 2) Land treated with SIMAZINE 80W 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 crops, regardless of the rate used. 4) If more than 3¾ lbs. of SIMAZINE 80W 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 80W 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 80W 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



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parts of the Dakotas, Nebraska, and Kansas, do not plant soybeans following corn treated with SIMAZINE 80W if more than 2½ lbs. of SIMAZINE 80W 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 80W application as injury may occur.

SUGARCANE

Apply 2½-5 lbs. per acre at planting or after harvest if ratoon crop is to be grown, but before weeds or sugarcane emerge. SIMAZINE 80W 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 2½-5 lb. application over the plants or more than two interline directed applications. 2) Do not apply after "close-in." 3) Total application should not exceed 12½ lbs. per acre crop cycle.

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



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NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTER BELTS

NURSERIES (see list below)

Apply 2½-3¼ lbs. in 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 2½-5 lbs. in at least 25 gals. of water per acre after transplanting. Use the same rate for annual maintenance applications.

For quackgrass control apply 5 lbs. per acre in the fall or apply a split application of 2½ lbs. per acre in the fall plus 2½ lbs. per acre in early spring, after quackgrass begins growth.

PRECAUTIONS: 1) Do not use SIMAZINE 80W on seedbeds or cutting beds. 2) Do not apply to Christmas tree or shelter belt transplants less than three years of age. 3) Do not apply more than once a year, except as directed for quackgrass control.

Apply SIMAZINE 80W to these species of trees and shrubs, as recommended above:

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|------------------|---------------|------------------|
| American elm | Douglas fir | Oregon grape |
| Austrian pine | red spruce | (Mahonia spp.) |
| arborvitae | Russian olive | red cedar |
| balsam fir | Scotch pine | red oak |
| barberry | Siberian elm | red pine |
| blue spruce | Fraser fir | (Norway pine) |
| boxelder | hemlock | white cedar |
| bush honeysuckle | honey locust | white pine |
| caragana | juniper | white spruce |
| coloneaster | Mugho pine | yew (Taxus spp.) |
| dogwood | Norway spruce | |

TURF GRASSES FOR SOD

St. Augustine, Centipede, and Zoysia Grass

Apply 2½-5 lbs. per acre, according to soil texture as indicated below.

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Muck or Peat	5 lbs.	Old beds: within 2 days after lifting of sod
		New beds: 3-4 days after sprigging or plugging
Sandy soil	2½ lbs.	Old beds: within 2 days after lifting of sod
		New beds: 7-10 days after sprigging or plugging

Apply an additional 2½ lbs. on muck or peat, or 1¼ lbs. 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 2½-5 lbs. 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 2½-5 lbs. per acre as a 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 NON-CROP LAND

Best results are obtained when SIMAZINE 80W 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 80W 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,

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2 days after lifting of sod
7 days after springing or
2 days after lifting of sod
7 days after springing or

...r peat, or 1/4 lbs. on
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CONTROL ON NON-

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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 1 lb. of SIMAZINE 80W; 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 mullein) apply 6-12 1/2 lbs. 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 12 1/2-25 lbs. per acre.

To control hard-to-kill perennial weeds (including bullthistle and sowthistle) apply 25-50 lbs. per acre.

For longer residual control in regions of high rainfall and a long growing season, apply 25-50 lbs. per acre.

NOTICE

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 herewith.

Manufactured for
ACETO AGRICULTURAL CHEMICAL CORPORATION
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