

ACCEPTED

JAN 29 1985
UNDER THE FEDERAL INSECTICIDE
FUNGICIDE AND RODENTICIDE ACT,
AS AMENDED AND FOR THE PESTICIDE
REGISTERED UNDER
EPA REG. No. 19713-46

RESTRICTED USE PESTICIDE

For retail sale to and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicator's certification

Drexel

Simazine 80W

Herbicide

Pre emergence control of many annual broadleaf weeds and grasses in agricultural and ornamental crops

ACTIVE INGREDIENT:

Simazine: 2-chloro-4, 6-bis (ethyl-amino)-s-triazine 80%

INERT INGREDIENTS: 20%

Keep Out Of The Reach of Children

CAUTION

EPA Registration Number: 19713-46
EPA Establishment Number: 728-AL-1

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Causes eye and skin irritation. Do not get in eyes, on skin, or on clothing. Wash thoroughly with soap and water after handling and before eating or smoking. Remove and wash contaminated clothing before reuse. Harmful if swallowed. Avoid inhalation of dust and contamination of food and feed.

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.

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.

IF SPLASHED IN EYES: Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

IF SPILLED ON SKIN: Immediately remove contaminated clothing, INCLUDING SHOES, and wash skin with soap and plenty of water. If irritation develops, send for a physician.

ENVIRONMENTAL HAZARD

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated. Simazine is known to leach through soil, and has been found in ground water as a result of agricultural use. Users are advised not to apply in areas where soils are permeable, i.e. well drained and which overlie shallow aquifers, particularly those currently being used for drinking water. Consult with the pesticide state lead agency for information regarding soil permeability and aquifer locations in your area. Do not apply directly to water or wetlands. Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE: It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. 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 and ornamental crops. When used at higher nonselective rates in noncrop areas, it also controls many perennial broadleaf weeds and grasses.

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 higher in organic matter.

Simazine Herbicide enters weeds mainly through their roots, moisture is needed to move it into the root zone. Very dry soil conditions and lack of rainfall following application may necessitate shallow cultivation, or rotary hoeing. Simazine 80W is noncorrosive to equipment and nonflammable.

ANNUAL WEEDS CONTROLLED

allyssum	carelessweed	Florida pusley	pigweed	silver hairgrass
Amaranthus spp	carpetweed	foxtails	prickly	smartweed
annual	common	goosegrass	lettuce	spanishneedles
bluegrass	chickweed	henbit	purslane	speedwell
annual	crabgrass	jungerice	*quackgrass	tansymustard
morningglory	downy brome	knawel	ragweed	wild mustard
annual ryegrass	fall panicum	lambsquarters	rattail fescue	wild oats
barnyardgrass	fireweed	mustard	Russian thistle	wiregrass
Bracharia spp	Flora's	nightshade	shepherdspurse	witchgrass
burclover	paintbrush	peppergrass	sheldress	

*See specific use directions

EQUIPMENT

Ground Application: Use conventional spray equipment with 80° fan-type nozzles. Screens in nozzles as well as those in suction and in-line 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 in-line 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. 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 prolonged 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.

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.

Ground Application: Where the amount of water is not specified, apply Simazine 80W in 20-40 gals of water per acre.

Region	Weeds Controlled	Soil Texture	Rate of Simazine 80W per acre
N. Dakota, S. Dakota, Minnesota, Wisconsin, Nebraska, Kansas, Iowa, Michigan, and New York	Henbit, wild mustard, chickweed, knotweed, alyssum, downy brome, wild oats, peppergass, tansy-mustard, pigweed, speedwell, and seedlings of yellow rocket, shepherdspurse, white cockle, farweed (pennycress), dandelion, Russian thistle, kochia	Sand and loamy sand Sandy loam Loam soil Clay soil	DO NOT USE 1 lb. 1½ lbs. 2 lbs.
Illinois, Indiana, Ohio, Kentucky, Virginia, Pennsylvania, New Jersey, Delaware, Maryland, West Virginia, Vermont, Mass., Connecticut, Maine, New Hampshire, Rhode Island and Missouri	Pigweed, common chickweed, mouse-ear chickweed, speedwell, henbit, knotweed, peppergass, downy brome, alyssum, lambsquarters, wild oats, and seedlings of shepherdspurse, farweed (pennycress), yellow rocket (wintercress), Russian thistle, dandelion, kochia, white cockle	Sand and loamy sand Sandy loam Loam soil Clay soil	DO NOT USE 1 lb. 1¼ lbs. 1½ lbs.

Alfalfa Less Than One Year Old (Northeastern U.S. only) Alfalfa which has been seeded in the spring (before June 1) and has become well established may be treated in the fall after the last cutting but before permanently frozen ground conditions. Alfalfa may be actively growing, semi-dormant or dormant when Simazine is applied. Apply 1 lb. of Simazine 80W per acre to control henbit, wild mustard, lambsquarters, chickweed, German moss, alyssum, downy brome, wild oats, tansymustard, pigweed, speedwell, and peppergass.

Established Alfalfa-Orchardgrass Mixtures (Northeastern U.S. only)

Apply only to alfalfa-orchardgrass mixtures which have been established at least one year. Make a single application in the fall after the alfalfa-orchardgrass mixture has gone dormant. Applications should be uniformly broadcast at the rate of 1 lb. of Simazine 80W per acre to control henbit, wild mustard, lambsquarters, chickweed, German moss, alyssum, downy brome, wild oats, tansymustard, pigweed, speedwell, and peppergass.

- NOTE:**
1. Do not use on sand or loamy sand, or on soil low in organic matter, or on sandy and gravelly areas in the fields as crop injury may occur
 2. Applications made to alfalfa growing on highly calcareous or highly alkaline soil may result in crop injury
 3. Use only in areas where frost occurs and alfalfa goes into a semi-dormant or dormant state.
 4. Do not apply on snow
 5. Simazine will not control fodder and established perennial or biennial weeds such as dandelion, white cockle, quackgrass, cinquefoil, wild carrot, and dock.
 6. Temporary crop chlorosis may appear on areas where overlapping occurs. The sprayer should be shut off when turning around at the end or corners of the field.
 7. Simazine treated alfalfa land should not be planted to any rotational crops except corn for the growing season following application as injury may occur

Allow 30 days between application and grazing of sheep, dairy and beef cattle, allow 60 days between application and cutting for hay

Forage Bermudagrass (such as Coastal and Midland)

For pre-emergence control of most annual broadleaf and grassy weeds including barnyardgrass, crabgrass, Brachiaria spp., goosegrass, foxtail, carelessnessweed, carpetweed, annual morning-glory, pigweed, purslane, Russian thistle, chickweed, henbit, and burclover, apply Simazine 80W shortly after springing. Apply it to established Bermudagrass from fall to spring depending

on the weed problem, but before weed emergence. Use the appropriate rate in the following table in a minimum of 15 gals. of water per acre for ground application and in a minimum of 1 gal. of water for each 1-1½ lbs. of wettable powder per acre for aerial application.

Soil Texture	Rate per acre
Fine sandy soil low in organic matter	1 lb.
Sandy loam soil	1½-2½ lbs.
Loam and clay soil low in organic matter	2½-3 lbs.
Clay soil	3-4 lbs.

Do not use Simazine 80W on bermudagrass in New Mexico and the High Plains of Texas. Do not apply within 7 days after cutting. Do not graze sheep, dairy or beef cattle for 30 days after 1-3 lbs. per acre application or for 60 days after 4 lbs. per acre application. Do not cut for hay for 60 days after 1-3 lbs. per acre application or for 90 days after 4 lbs. per acre application.

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.

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 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 than pre-emergence.

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

*For calculation of band treatment rate, see Information section.

Quackgrass Control: 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.

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

- NOTE:**
1. Do not apply more than 5 lbs. of Simazine 80W per acre to corn in any one year.
 2. Land treated with Simazine 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 parts of the Dakotas, Nebraska, and Kansas, do not plant soybeans following corn treated with Simazine 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.

NOTE:

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.

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 fescue 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 2½ lbs. Simazine 80W in a minimum of 15 gals. of water per acre as soon as fall rains start. Early application is important.

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

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

NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTER BELTS

Nurseries (see list below)

Apply 2½-3½ lbs. in at least 25 gals. of 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 2½-5 lbs. in at least 25 gals. of water per acre after transplanting. Use the same rate for annual maintenance applications.

Quackgrass Control: Apply 5 lbs. per acre in the fall or apply a split application of 2½ lbs. per acre in early spring, after quackgrass begins growth.

CAUTION:

1. Do not use Simazine 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.

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

TURF GRASSES FOR SOD

St. Augustine, Centipede, Zoysia Grass

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

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 1½ lbs. on sandy soil if weed growth occurs.

CAUTION:

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.

CAUTION: (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

CAUTION:

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

NONSELECTIVE WEED CONTROL ON NONCROP LAND

Best results are obtained when Simazine 80W is applied before weeds emerge.

• Weeds 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, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, road-sides, 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 6-12½ lbs. per acre. To Control Most Annual and Many Perennial Broadleaf and Grass Weeds (including quackgrass, bluegrass, redtop, burdock, Canada thistle, orchardgrass, purple top, smooth brome, dogfennel, and plantain) apply 12½-25 lbs. per acre.

To Control Hard-to-kill Perennial Weeds (including bull thistle and sow thistle) 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.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

STORAGE INSTRUCTIONS:

Storage should be under lock and key and secure from access by unauthorized persons and children. Storage should be in a cool dry area away from any heat or ignition source. Avoid storage at high temperatures. Do not stack over 2 pallets high. Move bags carefully so as not to tear or puncture. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Do not allow material to become wet or store in a damp, humid area. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original container only. If the contents are leaking or material is spilled follow these steps:

1. Collect and place in suitable containers for disposal.
2. Wash area with water and soap to remove remaining pesticide.
3. Follow washing with clean water rinse.
4. Do not allow run off to enter sewer or contaminate water supplies.
5. Dispose of waste as indicated below.

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: 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.

WARRANTY—CONDITION OF SALE:

Drexel warrants that the product conforms to its chemical description and is reasonably fit for the purpose stated on the label when used in accordance with directions under normal conditions of use, but neither this warranty nor any other warranty of MERCHANTABILITY or FITNESS for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under conditions not reasonably foreseeable to seller, and buyer assumes the risk of any such use.

Manufactured By

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