

US ENVIRONMENTAL PROTECTION AGENCY OFFICE OF PESTICIDES PROGRAMS REGISTRATION DIVISION (TS-767) WASHINGTON, DC 20460 NOTICE OF PESTICIDE: <input checked="" type="checkbox"/> REGISTRATION <input type="checkbox"/> REREGISTRATION <i>(Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended)</i>	EPA REGISTRATION NO. 2749-509	DATE OF ISSUANCE OCT 15 1985
	TERM OF ISSUANCE Conditional	
	NAME OF PESTICIDE PRODUCT Aceto Simazine 90 Water Dispersible Granular Herbicide	
NAME AND ADDRESS OF REGISTRANT (Include ZIP code)		
<p style="text-align: center;"> <input type="checkbox"/> Aceto Agricultural Chemical Company 126-02 Northern Boulevard Flushing, NY 11368 </p>		
<p>NOTE: Changes in labeling formula differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce. In any correspondence on this product always refer to the above U.S. EPA registration number.</p>		
<p>On the basis of information furnished by the registrant, the above named pesticide is hereby Registered/Reregistered under the Federal Insecticide, Fungicide, and Rodenticide Act.</p> <p>A copy of the labeling accepted in connection with this Registration/Reregistration is returned herewith.</p> <p>Registration is in no way to be construed as an indorsement or approval of this product by this Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.</p> <p>This product is conditionally registered in accordance with FIFRA sec. 3(c)(7)(A) provided that you:</p> <ol style="list-style-type: none"> 1. Submit and/or cite all data required for registration/reregistration of your product under FIFRA sec. 3(c)(5) when the Agency requires all registrants of similar products to submit such data. 2. Make the labeling changes listed below before you release the product for shipment: <ol style="list-style-type: none"> a. Add the phrase "EPA Registration No. 2749-509." b. Incorporate the Farm Worker Statements required by PR Notice 83-2. c. Update the Storage and Disposal Section according to PR Notice 83-3. 3. Submit five (5) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 Enclosure for a further description of final printed labeling. 		
<input type="checkbox"/> ATTACHMENT IS APPLICABLE		
SIGNATURE OF APPROVING OFFICIAL		DATE OCT 15 1985

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If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

Richard F. Mountfort *RFM*
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (TS-767)

Enclosure

3058

RESTRICTED USE PESTICIDE
For retail sale and use only by Certified Applicators or persons under their direct supervision and only for those uses covered by the Certified Applicators Certification.

ACCEPTED
with comments
OCT 15 1985
Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide ~~Herbicide~~ *Herbicide* EPA Reg. No. 0749-509

SIMAZINE 90
WATER DISPERSIBLE GRANULAR

For weed control in certain crops, ornamentals plantings, on Industrial Sites, and around the farm.

ACTIVE INGREDIENT:

Simazine: 2-Chloro-4,6-bis
(ethylamino)-S-triazine 90%

INERT INGREDIENTS:

TOTAL 100%

KEEP OUT OF REACH OF CHILDREN

CAUTION

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, or if available by administering syrup of ipecac. Do not induce vomiting or give anything by mouth to an unconscious person.

If on skin: Wash with plenty of soap and water. Get medical attention if irritation persists.

If in eyes: Flush with plenty of water. Get medical attention if irritation persists.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

Harmful if swallowed, absorbed through skin, or inhaled. Avoid breathing dust. Causes eye irritation. Avoid contact with eyes, skin or clothing. Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash before reuse.

ENVIRONMENTAL HAZARD

Do not apply directly to lakes, streams or ponds. Use with care when applying in areas adjacent to any body of water. Do not apply when weather conditions favor drift from target area. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

Farmer

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.

STORAGE: Store in a cool, dry area.

PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

CONTAINER DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by

ENVIRONMENTAL HAZARD

Do not apply directly to lakes, streams or ponds. Use with care when applying in areas adjacent to any body of water. Do not apply when weather conditions favor drift from target area. Do not contaminate water by cleaning of equipment or disposal of wastes.

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.

Farmworker

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.

STORAGE: Store in a cool, dry area.

PESTICIDE DISPOSAL: Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, state, or local procedures.

CONTAINER DISPOSAL: Completely empty bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of bags in a sanitary landfill or by incineration if allowed by State or local authorities.

NET CONTENTS: 50 lbs.

EPA Reg. No.

EPA EST. NO.

MANUFACTURED FOR:

ACETO AGRICULTURAL CHEMICALS CORP.
126-02 Northern Blvd.
Flushing, N.Y. 11568

maintaining sufficient agitation at all times to ensure surface action. This applies to both spray and nurse tanks. Immediately after use, clean sprayer thoroughly by flushing system with water containing a detergent.

Liquid Fertilizer: (1) Nitrogen solution or complete liquid fertilizer may replace all or part of the water as a carrier for application in alfalfa and corn. Before mixing, always check for compatibility. To do this, put proportionate quantities of this product and the liquid fertilizer being used into a quart jar. If 2.8 lbs. is being applied in 25 gals. of liquid fertilizer per acre, mix 1/4 oz. of this product in 1 pt. of liquid fertilizer. After shaking vigorously for 30 seconds, let stand for 5 minutes. If the fertilizer/herbicide combination remains mixed or can be remixed readily, the mixture is compatible and can be sprayed. If it is not compatible, make a water slurry with the herbicide before adding fertilizer and use the mixture only if this test shows it is compatible. Always maintain agitation. (2) If the product is compatible with liquid fertilizer, follow the mixing procedures for water—steps 1-7

Band Treatment

The amount of this product needed for band treatment may be calculated by the formula:

band width in inches x broadcast rate = amount needed
row width in inches per acre per acre of field

Rotational Crops and Perennial Crop Replanting

To avoid crop injury, observe the following precautions:

- 1) If rotating treated land the year following application, plant only corn, unless otherwise stated in this label. 2) If replanting perennial crops or if rotating land to crops other than corn, do not apply this product in the year preceding planting these crops.

Fruit and Nut Crops

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

Almonds and Peaches (CA only)

Apply 1.1-2.2 lbs. per treated 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 by 1.1 lbs. include burclover, common chickweed, wild mustard, and shepherds-purse. Apply only once per year.

Precautions: 1) Do not treat trees established in the grove less than 3 years. 2) Do not treat the Mission (Texas) variety of almonds. 3) Do not apply to almond trees propagated on plum rootstocks. 4) Do not replant almonds or peaches in treated soil for 12 months after treatment. 5) Do not apply on gravelly, sand, or loamy sand soil or on soil with less than 1% organic matter. 6) Do not treat areas where water will accumulate.

Apples, Pears, Sour Cherries

Apply 2.2-4 lbs. per acre

Avocados

CA and FL only: Apply 2.2-4 lbs. per acre after final preparation of grove.

Precaution: Do not apply on gravelly, sand, or loamy sand soil.

Blueberries and Caneberries (blackberries, boysenberries, loganberries, raspberries)

Apply 2.2-4 lbs. per acre in the spring or apply a split application of 2.2 lbs. per acre in the spring plus 2.2 lbs. 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 lbs. per acre in the fall or split the application applying 2.2 lbs. per acre in the fall plus 2.2 lbs. per acre in the spring, when quackgrass is actively growing.

Note: Do not apply when fruit is present.

Cranberries

MA: Apply up to 4 lbs. per acre either before spring growth begins or in the fall after harvest.

Other areas: Apply 2.2 lbs. per acre before spring growth begins.

Filberts

Apply 2.2-4 lbs. per acre in the fall or apply a split application of 2.2 lbs. per acre in the fall plus 2.2 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 apply on gravelly, sand, or loamy sand soil.

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

Grapes

Apply 2.2-5 lbs. per acre any time between harvest and early spring.

Precaution: Do not use in vineyards established less than three years. Do not apply on gravelly, sand, or loamy sand soil.

Grapefruit, Lemons, Oranges

AZ (Lemons and Oranges only): Apply a split application of 1.75 lbs. per acre in the spring plus 1.75 lbs. per acre in the fall.

CA: In grapefruit, apply 2.2-4 lbs. per acre. In lemons and oranges, apply 1.2-4 lbs. per acre in a single application, or apply 2.2 lbs. per acre in the fall and 2.2 lbs. per acre in the spring. Do not use in the Imperial, Coachella, or Palo Verde Valleys.

FL (Grapefruit and Oranges only): Apply only once per year. For control of weeds listed under General Information, apply 7.1-10.6 lbs. per acre in the spring, to also control milkweed, use 6.9-10.6 lbs. per acre either pre-emergence or before vines are 12 inches tall.

TX (Grapefruit and Oranges only) Apply 4.4-5.3 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.

Directions for Use

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

General Information

Apply this herbicide before weeds emerge or after 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, nonselective rates in crop areas, it also controls many perennial broadleaf and grass weeds.

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

Since this product 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.

This product is noncorrosive to equipment, nonflammable, and has low electrical conductivity.

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

Annual Weeds Controlled

Table with 3 columns listing weeds: Alyssum, annual bluegrass, annual morningglory, annual ryegrass, barnyardgrass (watergrass), burclover, carnationweed, C. pigweed, common chickweed, crabgrass (Digitaria spp.), downy brome (cheatgrass), fall panicum, fiddleneck, flume, fireweed, fivehook bassia, Flora's paintbrush, Florida pusley, foxtails, goosegrass, groundsel, hemp, jungletie, knawel (German moss), common lambsquarters, nightshade, pepperweed, pigweed, pineappleweed, prickly lettuce, common purslane, ragweed, rattle fescue, redmaids, Russian thistle, shepherds-purse, signalgrass (Brachiaria spp.), silver hairgrass, smartweed, spanishneedles, speedwell, tansymustard, wild mustard, wild oats, witchgrass, yellow flower, pepperweed.

Equipment

Ground Application: Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application. Be certain that nozzles are uniformly spaced and the same size. Calibrate sprayer before use and recalibrate at the start of each season and when changing carriers.

Use a pump with capacity to (1) maintain 35-40 psi at nozzles, (2) provide sufficient agitation in tank to keep mixture in suspension, and (3) to provide a minimum of 20% bypass at all times. Use centrifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gals./minute/100 gals. tank size circulated through a correctly positioned sparger tube or jets.

Use screen to protect the pump and to prevent nozzles from clogging. Screens placed on suction side of pump should be 16 mesh or coarser. Do not place a screen in the recirculation line. Use 50-mesh or coarser screens between the pump and boom, and where required, at the nozzles. Check nozzle manufacturer's recommendations.

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, they should avoid inhalation of dust or spray mist, and prolonged contact with skin. Flagmen and loaders should wash thoroughly before eating and at the end of each day's operation.

Mixing Instructions

Unless otherwise specified, use a minimum of 20 gals. of spray mixture per acre for all applications with ground equipment. For aerial application, apply a minimum of 1 gal. of water for each 1-1.5 lbs. applied per acre.

Water: (1) Be sure sprayer is clean and not contaminated with any material, as crop injury or sprayer clogging may result. (2) Fill tank 1/2 full with clean water, and start agitation. (3) Be certain that the agitation system is working properly and creates a rippling or roiling action on the liquid surface. (4) Pour product directly from bag into tank. (5) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action. (6) Complete filling tank.

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Macadamia Nuts

Apply 2.2-4.4 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 2.2-4.4 lbs. per acre following grove preparation in the fall. Repeat annually in midwinter.

Peaches, Plums, Sweet Cherries

Apply 1.75-4.4 lbs. per acre. Apply in late fall to early spring prior to weed emergence.

Precautions: 1) Do not apply on gravelly, sand, or loamy sand soil. 2) Peaches use only in AR, LA, MO, OK, TX, and states east of the Miss. River. For CA, see specific directions in the section "Almonds and Peaches (CA only)." 3) Plums and sweet cherries use only in MO and states east of the Miss. River except TN.

Pecans

Apply the appropriate rate in the following table before weeds emerge in the spring.

Soil texture	Rate per acre
Sand, loamy sand	DO NOT USE
Sandy loam	2.2 lbs.
Loam or clay soil low in organic matter	2.2-3.1 lbs.
Clay soil high in organic matter	3.1-4.4 lbs.

Precautions: Do not use west of the Pecos River in TX or in NM, AZ, or CA, as injury will occur. Do not make applications to transplanted trees that have been established less than two years in the grove as injury may occur.

Note: Do not apply when nuts are on the ground. Do not allow animals to graze treated areas.

Strawberries (OR and WA only)

For control of chickweed, groundsel, mustard, and shepherdspurse, apply broadcast 1.1 lb. 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.

Precautions: Make only one application per growing season. Do not apply within 4 months after transplanting. Limit overhead irrigation to 1/2 inch immediately following post-harvest application. Do not use on sand.

Walnuts

Apply 2.2-4.4 lbs. per acre.

Precautions: 1) Do not apply on gravelly, sand, or loamy sand soil. 2) Leveling and furrowing operations after application will lessen effectiveness of weed control.

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

Field and Forage Crops

Alfalfa

Pure alfalfa at least one year old, pure alfalfa less than one year old, and alfalfa-orchardgrass mixtures at least one year old.

For ground application, apply this product in a minimum of 13 gals. of water per acre. Fluid fertilizer may replace all or part of the water used as a carrier, except fluid fertilizers should not be used when alfalfa is actively growing, as injury may occur.

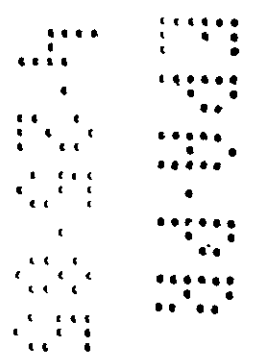
For aerial application, apply this product in a minimum of 2 1/2 gals. of water per acre.

Pure Alfalfa At Least One Year Old (All Areas Listed)

Apply once per year in the fall after the last cutting but prior to permanently frozen ground conditions. Alfalfa may be actively growing, semi-dormant, or dormant when the application is made.

Alfalfa must be growing for at least one year before treatment.

Alfalfa regions	Weeds controlled	Soil texture	Rate per acre
WA, OR, NV, UT, ID, MT, WY, CO, and the California counties of Del Norte, Siskiyou, Modoc, Shasta, Lassen, Plumas, Sierra and Nevada	Downy brome, ichaegrass, tansymustard, prickly lettuce, pepperweed, seedling shepherdspurse, yellow flower pepperweed	Sand and loamy sand Sandy loam Loam soil Clay soil	DO NOT USE 0.9 lb. 0.9-1.3 lbs. 1.3-1.75 lbs.
ND, SD, MN, WI, NE, KS, IA, MI, and NY	Renbit, wild mustard, common chickweed, sparrow (German) moss, Alyssum, downy brome, ichaegrass, wild oats, broomrape, tansymustard, pigweed, speedwell, and seedlings of yellow rocket, shepherdspurse, white cockle, tanweed, pennycress, dandelion, Russian thistle, Kochia	Sand and loamy sand Sandy loam Loam soil Clay soil	DO NOT USE 0.9 lb. 1.1 lbs. 1.75 lbs.
IL, IN, OH, KY, VA, PA, NJ, DE, MD, WV, VT, MA, CT, ME, NH, RI, and MO	Pigweed, common chickweed, mouse-ear chickweed, speedwell, renbit, sparrow (German) moss, pepperweed, downy brome, Alyssum, common lambquarters, wild oats, and seedlings of shepherdspurse, tanweed, pennycress, yellow rocket, wintercress, Russian thistle, dandelion, Kochia, white cockle	Sand and loamy sand Sandy loam Loam soil Clay soil	DO NOT USE 0.9 lb. 1.1 lbs. 1.3 lbs.



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Pure Alfalfa Less Than One Year Old (Northeastern U.S. Only)

Pure alfalfa which has been seeded in the spring before June 1 and has become well established may be treated in the fall after the first cutting but before permanently frozen ground conditions. Alfalfa may be actively growing, semi-dormant, or dormant when this product is applied. Apply 0.9 lb. per acre to control henbit, wild mustard, common lambsquarters, common chickweed, German moss, Alyssum, downy brome (cheatgrass), wild oats, tansymustard, pigweed, speedwell, and pepperweed.

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 0.9 lb. per acre to control henbit, wild mustard, common lambsquarters, common chickweed, German moss, Alyssum, downy brome (cheatgrass), wild oats, tansymustard, pigweed, speedwell, and pepperweed.

Precautions (For Each Use): 1) Do not use on gravelly, sand, or loamy sand soil, or on soil low in organic matter, 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) This product will not control dodder 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) Do not rotate to any crops except corn for the growing season following application as injury may occur.

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

Forage Bermudagrasses (Such as Coastal and Midland)

For preemergence control of most annual broadleaf and grassy weeds including barnyardgrass, crabgrass, Brachiaria spp., goosegrass, foxtail, carexweed, carpetweed, annual morningglory, pigweed, common purslane, Russian thistle, common chickweed, henbit, and burclover, apply the product 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 0.9-1.3 lbs. of this product per acre for aerial application.

Soil texture	Rate per acre
Fine sandy soil low in organic matter	0.9 lb.
Sandy loam soil	1.3-2.2 lbs.
Loam and clay soil low in organic matter	2.2-2.6 lbs.
Clay soil	2.6-3.5 lbs.

Precautions: 1) Do not use on bermudagrass in NM and the High Plains of TX. 2) Do not apply within 7 days after cutting.

Note: Do not graze dairy or beef cattle or sheep for 30 days after 0.9-2.6 lbs. per acre application or for 60 days after 3.5 lbs. per acre application. Do not cut for hay for 60 days after 0.9-2.6 lbs. per acre application or for 90 days after 3.5 lbs. per acre application.

Corn

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier. 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. Best results will be obtained when this product is applied within 2 weeks before planting.

Note: 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	2.2 lbs.
Medium-textured soil: Soil containing a moderate amount of clay and organic matter	2.6 lbs.
Fine-textured soil: Loam that is high in organic matter and clay (including dark prairie soils of Corn Belt)	3.3 lbs.
Organic soil, Peat, muck, and high-organic clay	4.4 lbs.

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

To control quackgrass: Apply 3.3-4.4 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 4.4 lbs. per acre to corn per year. 2) Do not rotate to any crop except corn until the following year as injury may occur. 3) After harvest, 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 3.3 lbs. 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 preplant incorporated in corn in the High Plains and Intermountain areas of the West (including central and western KS, western NE, western OK, and the Panhandle of TX) 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 this product to control weeds in corn only when corn is to follow corn or when a crop of untreated corn is to precede another rotational crop. 7) In western MN and eastern parts of the Dakotas, NE, and KS, do not plant soybeans following corn treated with this product if more than 2.2 lbs. per acre (or equivalent rate in a band) was applied as injury may occur. 8) Injury may occur to soybeans planted in north-central and northwest IA, south-central and southwest MN, northeast NE, southeast SD, and other areas the year following application on soils having a calcareous surface layer. 9) Do not plant sugar beets, tobacco, vegetables (including dry beans), spring-seeded small grains, or small-seeded legumes and grasses the year after an application, as injury may occur.

Sugarcane

Apply 2.2-4.4 lbs. per acre at planting or after harvest if ratoon crop is to be grown, but before weeds or sugarcane emerge. This product 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 2.2-4.4 lbs. application over the plants or more than two interline-directed applications. 2) Do not apply after "close-in". 3) Total application should not exceed 11.1 lbs. 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 bentgrasses, orchardgrass, tall fescue and fine fescues such as Mahee, Rainier, Pennawn, 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 2.2 lbs. 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 for hay

Nurseries, Christmas Tree Plantings, Shelterbelts

Nurseries (see list below)

Apply 2-3-4 lbs. in at least 25 gals. of water per acre in fall or spring at least one year after transplanting

Christmas Tree Plantings and Shelterbelts (see list below)

Remove weed growth before application. Apply 2-4-4 lbs. in at least 25 gals. of water per acre after transplanting. Use the same rate for annual maintenance applications.

For quackgrass control apply 4 lbs. per acre in the fall or apply a split application of 2 lbs. per acre in the fall plus 2 lbs. per acre in early spring, after quackgrass begins growth.

Precautions: 1) Do not use on seedbeds or cutting beds. 2) In CA, OR, and WA do not apply to Christmas trees or shelterbelts sooner than one year after transplanting. In other areas, do not apply to Christmas trees or shelterbelt transplants less than three years of age. 3) Do not apply more than once a year, except as directed for quackgrass control.

Apply to these species of trees and shrubs as recommended above

Conifers

Arbutus
Austrian pine
Bishop pine
Knobcone pine
Lodgepole pine (shore pine)
Monterey pine
Mugho pine
Red pine (Norway pine)
Scotch pine
White pine
Blue spruce

Norway spruce
Red spruce
White spruce
Balsam fir
Douglas fir
Fraser fir
White fir
Hemlock
Juniper
Red cedar
White cedar
Yew (Taxus spp.)

*For CA only

Deciduous Trees and Woody Ornamentals

American elm
Siberian elm
Barberry
Boxelder
Bush honeysuckle
Caragana
Catalpa
Dogwood
Eucalyptus
Holly (Ilex spp.) (max. 3.5 lbs./A)
Honey locust
Oregon grape
Mahonia spp.

Pearl pine (max. 3.5 lbs./A)
Red oak
Russian olive
Oleander
Palm (2 lbs./A)
Bottle brush
Carob

Tree Plantations for Timber

Apply in the spring before weeds emerge or following removal of weed growth. Apply before or after seeding/transplanting. If applying after transplanting, application may be made over the top of tree seedlings before new growth appears. If new growth is present, direct the spray to avoid tree foliage contact. Do not use on seed nurseries or injury may occur. Apply only once per year.

The following rates are based on broadcast treatment in 20-100 gals. of water per acre. For band or spot applications, reduce the broadcast rate in proportion to the area actually sprayed.

Black Walnuts

Apply 2-4-4 lbs. per acre.

Slash Pine and White Pine

Use for establishment in the South only. Apply 4-4-6 lbs. per acre.

Loblolly Pine

Use for establishment in the South only. Apply either 4-4-6 lbs. of this product per acre.

Turf Grasses for Sod

St. Augustine, Centipede, and Zoysia Grass

Apply 2-2-4 lbs. per acre, according to soil texture as indicated below.

Muck or peat	4-4 lbs.	Old beds	within 2 days after lifting of sod
		New beds	3-4 days after sprigging or plugging
Sandy soil	2.2 lbs.	Old beds	within 2 days after lifting of sod
		New beds	7-10 days after sprigging or plugging

If weeds regrow, apply an additional 2.2 lbs. on muck or peat, or 1.1 lbs. on sandy soil.

Precautions: 1) Do not apply within 30 days before cutting or lifting. 2) Do not use north of NC.

Vegetable Crops

Asparagus (Established)

Apply 2-2-4 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 (WA and OR only): 1) Do not apply to gravelly, sand, or loamy sand soil 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 2-2-4 lbs. per acre as a directed spray after the last fall tillage.

Precautions: 1) Do not apply to gravelly, sand, or loamy sand soil. 2) Apply only once per year.

Nonselective Weed Control on Noncrop Land

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

This product provides long-term weed control on industrial sites, highway medians and shoulders, railroad rights-of-way, lumberyards, petroleum tank farms, and in noncrop areas on farms, such as around buildings, equipment and fuel storage areas, along fences, roadsides, and lanes. 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. Aerial applications may be made where it is feasible.

Use at least 1 gal. of water for each 0.9 lb. of this product; use more water if practical for both ground and aerial applications.

To control annual broadleaf and grass weeds (including barnyardgrass, cheat, crabgrass, common lambsquarters, foxtail, ragweed, puncturevine, and turkey mullein) apply 5-3-11.1 lbs. per acre.

To control most annual and many perennial broadleaf and grass weeds (including quackgrass, bluegrass, wild oat, burdock, Canada thistle, orchardgrass, purpletop, smooth brome, dogfennel, and plantain) apply 11-1-22.2 lbs. per acre.

To control hard-to-kill perennial weeds (including bull thistle and sowthistles) apply 22-2-44.4 lbs. per acre.

For long-term control of weeds on high traffic areas and in areas of high use, apply 22-2-44.4 lbs. per acre.

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