UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

AUG 1 6 2000

Mr. Luz G. Piwonka Registration Manager DREXEL CHEMICAL COMPANY P.O. Box 13327 Memphis, TN 38113-0327

SUBJECT: Label Amendment

Drexel Simazine 4L, EPA Reg. No. 19713-60

Your Application Dated June 8, 2000

The above mentioned amendment submitted in connection with registration under Federal Insecticide, Fungicide, and Rodenticide Act, as amended is acceptable.

A stamped copy is enclosed for your records. Please submit one(1) final printed copy for the above mentioned label before releasing the product for shipment.

Syncerely

Jim Tompkins

Product Manager, (25)

Herbicide Branch

Registration Division (7505C)

: :

Enclosure

			CONCURRENCES	 	
SYMBOL ►	7505C				
SURNAME >	MINOR, E.				
DATE >	Aug 10, 2000				}

EP4 Form 1320-1 (12-70)

OFFICIAL FILE COPY



ACCEPTED

1 6 2000

Under the Pederal Investigida Pungicide, and Hoderstonde Act. as amended, for the pestadde registered under EPA Reg. No. / 77/23 - L b

Simazine 41

Herbicide

Pre-emergence control of many annual Broadleaf weeds and Grasses in agricultural and ornamental crops.

ACTIVE INGREDIENT:

Simazine: (2-chloro-4,6-bis[ethylamine]s-triazine)* OTHER INGREDIENTS: ;.... 60.0% *This product contains 4 pounds of Simazine per gallon.

KEEP OUT OF REACH OF CHILDREN

See FIRST AID Below SHAKE WELL BEFORE USING

EPA Reg. No. 19713-60 EPA Est. No. 19713-MS-1

Net Contents:

FIRST AID

IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor
- Do not give anything by mouth to an unconscious person.

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue
- Call a poison control center or doctor for treatment advice.

IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment,

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION: Harmful if swallowed. Avoid breathing of spray. Avoid contact with skin and eyes.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks and waterproof gloves. When handlers use aircraft in a manner that meets the requirements tisted in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240 (d) (4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS. Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply when weather conditions favor drift from areas treated. This product is a chemical which can travel (seep or leach) through soil and can contaminate ground water which may be used as drinking water. This product has been found in ground water as a result of agricultural use. Users are advised not to apply this product 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. Do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do

not contaminate water when disposing of equipment washwaters.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about Personal Protective Equipment (PPE) and restricted entry interval (REI). The requirements in this box only apply to uses of this product that are covered by the WPS. Do not enter or allow worker entry into treated areas during the REI of 12 hours.

PPE required for early entry to treated areas that is permitted under the WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, shoes plus socks and waterproof gloves.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the WPS for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or green-

Do not enter treated areas without protective cibining until sprays have dried.

CHEMIGATION

Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set or hand move) irrigation systems. Do not apply this product through any other type of irrigation system. Crop injury, lack of effectiveness or illegal pesticide residues in the crop can result from nonuniform distribution of treated water.

> Manufactured By: **Drexel Chemical Company** P.O. BOX 13327, MEMPHIS, TN 381 1.3-632F 4 SINCE 1972

If you have questions about calibration, you should contact State Extension Service specialists, equipment manufacturers or other experts. Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.

A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make necessary adjustments should the need arise.

Public water system means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of at least 25 individuals daily at least 60 days out of the year.

Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone backflow preventer (RPZ) or the functional equivalent in the water supply line upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.

The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.

Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speed favors drift beyond the area intended for treatment.

Information regarding agitation, time of pesticide application during water application and mixing instructions, is included in Sprinkler Chemigation statements.

The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from backflow. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

The irrigation line or \widetilde{w} ater pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected. Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

PRE-EMERGENCE OR POST-EMERGENCE: Apply this product alone or in tank mixtures with other herbicides on this label which are registered for center pivot application, with irrigation water. Apply either after planting, before crop and weeds emerge, or after crop emergence, but before lay-by (20 to 30 inches) and before weeds exceed 1½ inches in height. Apply at rates recommended on this label. Prepare mixture with minimum of 1 part water to 1 part product. Injecting a larger volume of a more dilute slurry per hour will assure more accurate calibration of metering equipment. Maintain sufficient agitation to keep herbicide in suspension. Meter slurry into irrigation water during entire period. Apply In ½ to 1 inch of water. Use the lower water volume on Coarser textured soils, the higher volume on Finer textured soils. More than 1 inch water may reduce weed control by moving herbicide below the effective zone in the soil, Inject dilute slurry into system through positive displacement pump.

USE PRECAUTIONS:

- Apply only through irrigation systems containing anti-siphon and check valves to prevent contamination of well during shutdown and overflow of solution.
- Inject ahead of any right angle turn in the main line to ensure adequate mixing.

- Chemical injection pumps and water pumps must have interlocking controls to ensure simultaneous shutoff.
- 4. Application when drift may occur from windy conditions, when system joints and connections are leaking or when nozzles are not providing uniform distribution may cause crop injury.
- Where sprinkler distribution patterns do not overlap sufficiently, unacceptable weed control may result. Where sprinkler distribution patterns overlap excessively, crop injury may result.

GENERAL INFORMATION

This product 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. Where a range of application rates is given, use the low rate on Coarser textured soil and soil lower in organic matter, use the high rate on Finer textured soil and soil higher in organic matter.

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

Simazine 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. This product is non-corrosive to equipment and non-flammable.

ANNUAL WEEDS CONTROLLED

Alyecum, Amaranthus epp., Annual bluegrace, Annual morningglory, Annual ryegrace, Barnyardgrace, Brachiaria spp., Burclover, Careleceweed, Carpetweed, Common chickweed, Crabgrace, Downy brome, Fall panicum, Fiddleneck, Filaree, Fireweed, Fivehook baccia. Flora'c paintbruch, Florida purcley, Foxtaile, Goocegrace, Groundsel, Henbit, Junglerice, Knawel, Lambsquarters, Mustard, Nightchade, Peppergrace, Pepperweed, Pigweed, Pineapple weed, Prickly lettuce, Purclane, Quackgrace', Ragweed, Ralfall feccue, Radmaide, Ruscian thistle, Shepherdepurse, Shielderece, Silver hairgrace, Smartweed, Spanichneedles, Speedwell, Tansymuctard, Wild mustard, Wild ask, Wiregrace, Witchgrace, Xellow flower.

Annual Weeds Controlled				
Alyssum	Fireweed	Ragweed		
Annual bluegrass	Fivehook bassia	Rattail fescue		
Annual morningglory	Flora's paintbrush	Redmaids		
Annual ryegrass	Florida pusley	Russian thistle		
Barnyardgrass	Foxtails	Shepherdspurse		
(Watergrass)	Goosegrass	Signalgrass		
Burclover	Groundsel	(Brachiaria spp.)		
Carelessweed	Henbit	Silver hairgrass		
Carpetweed	Junglerice	Smartweed		
Common chickweed	Knawel (German moss)	Spanishneedles		
Crabgrass	Common lambsquarters	Speedwell		
(Digitaria spp.)	Nightshade	Tansymustard		
Downy brome	Pepperweed	Wild mustard		
(Cheatgrass)	Pigweed	Wild oats		
Fall panicum	Pineappleweed	Witchgrass		
Fiddleneck	Prickly lettuce	Yellow flower		
Filaree	Common pursiane	pepperweed		

Following many years of continuous use of this product and chemically related products, biotypes of some of the weeds listed on this label have been reported which cannot be effectively controlled by this and related herbicides. Where this is known or suspected and weeds controlled by this product are expected to be present along with resistant biotypes, we recommend the use of this product in registered combinations or in sequence—with other registered herbicides which are not triazines. If only resistant biotypes are expected to be present, use a registered non-triazine herbicide. Consult with your State Agricultural Extension Service for specific recommendations.

EQUIPMENT

GROUND APPLICATION: Use conventional spray equi, ment with 80° fan type nezzles. Screens in nezzles 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 26 to 46 per at the nozalos. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture (i.) supposion. Wash sprayer thoroughly with clean water immediately after use.

APPLICATION PROCEDURES

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. Unless otherwise specified, use a minimum of 20 gals, of spray mixture per acre.

Use a pump with capacity to: 1) Maintain 35 to 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 cen-

trifugal pumps which provide propeller shear action for dispersing and mixing this product. The pump should provide a minimum of 10 gallons per minute per 100 gallon tank size circulated through a correctly positioned sparger tube or jets.

Use screens to protect the pump and to prevent nozzles from clogging. Screens placed on the suction side of the pump should be 16mesh 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. For band applications, calculate amount to be applied per acre as

broadcast rate band width in inches amount needed х row width in inches per acre per acre

AERIAL APPLICATION: Use serial application only specified in the use directions. Screens in nozzles as well as those in suction and inline strainers should be no finer than 50 mech.

Avoid application under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur. Wash sprayer thoroughly with clean water immediately after use.

AERIAL APPLICATION: Use aerial application only where specified in the use directions. Apply in a minimum of 1 gallon of water for each quart of this product applied per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive spray drift may occur.

Avoid application to humans or animals, Flagmen and loaders should avoid inhalation of spray mist and prolonged contact with skin.

MIXING INSTRUCTIONS

Mix this product with water and apply as a spray. Pour this product into the tank during or after filling. Hydraulic (jet) or mechanical agitation is recommended during mixing and application to keep mate rial in suspansion. All return lines to the tank must discharge below liquid leve! and agitation should not be so violent as to sause air bubbles to form in the liquid. Wash sprayer thoroughly after usa. GROUND APPLICATION: Where the amount of water is not specified, apply this product in 20 to 40 gallons of water per acre-AERIAL APPLICATION: Use a minimum of one gallon of water for each quart of this product applied per acre, unless otherwise specified-

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

breadcast rate hand width in inches amount needed row width in inches per acre 991-3C19

MIXING PROCEDURES

All Uses: 1) Be sure sprayer is clean and not contaminated with any other materials or crop injury or sprayer clogging may result. 2) Fill tank ¼ full with clean water, nitrogen solution or complete fluid fertilizer. 3) Start agitation. 4) Be certain that the agitation system is working properly and creates a rippling or rolling action on the liquid surface. 5) If any dry herbicides are being tank-mixed, add them to the tank and allow them to become thoroughly suspended. 6) Then pour this product directly from jug into tank. 7) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action, 8) Add other liquid tank-mix herbicide(s) after this product is thoroughly suspended. 9) Finish filling tank. Maintain agitation to avoid separation of materials. 10) Empty tank as completely as possible before refilling to prevent buildup of emulsifiable concentrate residue from possible tank-mix herbicides. 11) If an emulsifiable concentrate film starts to build up in tank, drain it and clean with strong detergent solution or solvent. 12) Clean sprayer thoroughly immediately after use by flushing system with water containing a detergent.

Compatibility test: To determine the tank mix compatibility of this product with liquid fertilizer, crop oil, spreaders, or other recommended pesticides, use this test method. Nitrogen solutions or complete fluid fertilizers may replace all or part of the water in the spray in Corn. Since liquid fertilizers can vary, even within the same analysis, check compatibility each time before use. Be especially careful when using complete suspension or fluid fertilizers as serious compatibility problems are more apt to occur. Commercial application equipment may improve compatibility in some instances. Check compatibility using this procedure:

- 1. Add 1 pint of fertilizer to each 2 one-quart glass jars with tight lids.
- 2. To one of the jars, add 1/4 teaspoon of a compatibility agent approved for this use (1/4 teaspoon is equivalent to 2 pints per 100 gallons of spray). Cap and shake until mixed. Examples of compatibility agents include Compex* and Unite*.
- 3. To both jars, add the appropriate amount of herbicide(s). If more than one herbicide is used, add them separately with dry herbicides first, flowables next, and emulsifiable concentrates last. After each addition, cap and shake until thoroughly mixed. The appropriate amount of herbicides for this test follows (assuming a spray volume of 25 gallons per acre):

Dry herbicides: For each pound per acre, add 11/2 teaspoons to each jar. Fluff up wettable powder products before measuring.

Liquid Herbicides: For each pint per acre, add 1/2 teaspoon to each jar.

For a spray volume other than 25 gallons per acre, change the teaspoons added to each jar as follows:

25 gallons x number of teaspoons given above desired gallons of spray volume per acre = teaspoons to add to each jar

4. After adding all ingredients, put lids on and tighten. Shake jars vigorously one minute. Let the mixtures stand 15 minutes and then look for separation, large flakes, precipitates, grease, gels, medium to heavy oily film on the jar, or other signs of incompatibility. Determine if the compatibility agent is needed in the spray mixture by comparing the two jars. If either mixture separates, but can be remixed readily, the mixture can probably be sprayed as long as good agitation is used.

If the mixtures are incompatible, test the following methods of improving compatibility: A) Slurry the dry herbicide(s) in water before addition, or B) Add ½ of the compatibility agent to the fertilizer and the other ½ to the emulsifiable concentrate or flowable herbicide before addition to the mixture. If still incompatible, do not use the materials mixed in the same spray tank.

Rotational Crops and Perennial Crop Replanting

To avoid crop injury, observe the following precautions: 1) If rotating treated and 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

the scray to the orchard or vineyard floor avoiding tact with fait, foliage or stems. Make application only to or chards or groves where trees have been established one more, unless specified differently. Make only one application per year, except as noted otherwise. Recommended rates are based an broadcast treatment. For band applications or spot applications around trees in fruit or nut planting, reduce the broadcast rate of this product and water per agre in proportion to the area actually sarayed.

Apply the scray to the orchard or vineyard floor, avoiding contact with fruit, foliage or stems. 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 this product and water per acre in proportion to the area actually sprayed.

USE PRECAUTIONS: Do not apply to candy coils.

USE PRECAUTIONS (All Fruit and Nut crops): To avoid crop injury, 1) Apply only to orchards or groves where trees have been established 12 months or more, unless specified differently. 2) Make only one application per year, except as noted otherwise. 3) Do not use on Gravelly, Sand or Loamy sand soil. 4) Immediately following application, limit overhead sprinkler irrigation to ½ inch.

ALMONDS, PEACHES AND NECTARINES (CA only)

Apply 1 to 2 quarts of this product per treated acre in a 2 to 4 foot band on each side of the tree row. Apply before weeds emerge in late Fall or early Winter. Weeds controlled by 1 quart of this product include Burclover, Common chickweed, Shepherdspurse and Wild mustard. Apply only once each year.

USE PRECAUTIONS: To avoid crop injury, 1) Do not treat trees established in the grove less than 3 years; 2) Do not treat the Mission (TX) variety of Almonds; 3) Do not apply to Almond trees propagated on Pium rootstocks; 4) Do not replant Almonds, Peaches or Nectarines in treated soil for 12 months after treatment; 5) Do not apply on soil with less than 1% organis matter; 6) Do not treat trees where water will accumulate.

APPLES, PEARS, SOUR CHERRIES Apply 2 to 4 quarts per acre.

AVOCADOS (CA and FL only)

Apply 2 to 4 quarts per acre after final preparation of grove.

BLUEBERRIES AND CANEBERRIES (Blackberries, Boyserberries, Loganberries, Raspberries)

Apply 2 to 4 quarts per acre in the Spring or apply a split-application of 2 quarts per acre in the Spring plus 2 quarts per acre in the Fall. Apply in a minimum of 40 gallons of water per acre.

On planting less than 6 months old \$3e \$3d the above rates. Do not apply when fruit is precent.

QUACKGRASS CONTROL: Apply 4 gurts per acré in the split the application applying 2 quarts per acre in the Fall plus 2 quarts per acre in the Spring, when Quarkgrass is actively grow-

To control Quackgrass, apply 4 quarts jor∍ácre in the 5all or split. the application, applying 2 quarts per acre in the Fall plus, 2 quarts per acre in the Spring when Quackgrass is actively growing.

Note: Do not apply when fruit is present or illegal residues may ,,,,,

CRANBERRIES

MA: Apply up to 4 quarts per acre either before Spring growth begins or in the Fall after harvest.

Other Areas: Apply 2 quarts per acre before Spring growth begins.

OR and WA only: Apply 2 to 4 quarts per acre in the Fall or apply a split application of 2 quarts per acre in the Fall plus 2 quarts per acre in the Spring. Do not use on Sandy soil.

USE PRECAUTIONS: If trees are planted on a hillside, excessive soil erosion may result from the elimination of weeds.

Note: Do not apply when Nuts are on the ground during the harvest

GRAPEFRUIT, LEMONS, ORANGES

AZ (Lemons and Oranges only): Apply a split application of 1.6 quarts per acre in the Spring plus 1.6 quarts per acre in the Fall. CA: Apply 2 to 4 quarts per acre in a single application or apply 2 quarts per acre in the Fall and 2 quarts per acre in the Spring. USE PRECAUTIONS: Do not use in the Imperial, Coachella or Palo Verde Valleys or crop injury may occur.

FL (Grapefruit and Oranges Only): (Ridge Areas only once per year.) For control of weeds listed under "General Information", apply 6% to 3% quarts per acre in the Spring; to control Milkweed vine, use 8 to 9% quarts per acre either pre emergence or before vines are 12 inches tall. Complete control of Milkweed vine, may require receat application over a period of 2 to 3 years. (Bedded Areas) Apply 3% quarts per acre in hedded areas to control Balsamapple vine and other weeds. Apply price to periods of major weed seed germination in soil where moisture conditions are good. Apply only once per year.

Apply 4 quarts of this product to weed-free soil during the Spring and/or Fall to control weeds expected to emerge during these periods. Apply prior to emergence of weeds or after emerged weeds have been controlled with a contact herbicide. Use caution to keep the treatment off the foliage, fruit or trunk of Citrus trees.

TX (Grapefruit and Oranges only): Apply 4 to 4.8 quarts per acre. NOTE (All Areas): Do not use in nurceries. Do not apply to badded Grapefruit, Lemons or Oranges except for FL Grapefruit and Oranges. Do not apply to trees under stress from freeze damage for one year after the freeze.

USE PRECAUTIONS (All Areas)—To avoid crop injury: 1) Do not use in nurseries. 2) Do not apply to bedded Grapefruit, Lemons or Oranges (except for FL Grapefruit and Oranges). 3) Do not apply to trees under stress from freeze damage for one year after the freeze. 4) In FL, do not exceed 8 quarts of this product during any one growing season.

GRAPES

Apply 2 to 4.8 quarts per acre any time between harvest and early Spring. USE PRECAUTION: Do not use in vineyards established less than three years or crop injury may occur.

MACADAMIA NUTS

Apply 2 to 4 quarts in 50 gallons of water per acre before harvest and just prior to weed emergence. Repeat application as necessary. Note: Do not apply when Nuts are on the ground during the harvest period, as illegal residues may result.

OLIVES

Apply 2 to 4 quarts per acre following grove preparation in the Fall. Repeat annually in mid-Winter.

PEACHES, PLUMS, SWEET CHERRIES

Apply 1.6 to 4 quarts per acre. Apply in late Fall to early Spring prior to weed emergence.

For Poschec, use only in AR, LA, MO, OK, TX and the states East of the Mississipple

For Plums and Sweet cherries, use only in MO and states East of the Misciscippi River except TN.—Do not apply to Sandy or Gravelly soil. USE PRECAUTIONS—To avoid crop injury: 1) Peaches—Use only in AR, LA, MO, OK, TX and states East of the Mississippi River. For CA, see specific directions in the ALMONDS, PEACHES AND NECTARINES (CA ONLY) section. 2) Plums and Sweet cherries—Use only in MO and states East of the Mississippi 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 loarn	4 pints
Loann or Clay soil low in organic matter	4 to 5% pints
Clay soil high in organic matter	5% to 8 pints

Do not use West of the Pecos River in TX or in AZ, CA or NM, Do not make applications to transplanted trees that have been established less than two years in the groups as injury may occur. Do not apply when Nuts are on the ground. Do not allow animals to graze treated areas.

Apply 2 to 4 quarts per acre before weeds emerge in the Spring. USE PRECAUTIONS—To avoid crop injury: 1) Do not use West of the Pecos River in TX or in AZ, CA or NM. 2) Do not make applications to transplanted trees that have been established less than two years in the grove.

Note: Do not apply when Nuts are on the ground or illegal residues may result. Do not allow animals to graze treated areas.

STRAWBERRIES

OR and WA: For control of Chickweed, Groundsel, Mustard and Shepherdspurse, apply broadcast 1 quart 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.

Note USE PRECAUTIONS—To avoid crop injury: 1) Make only one application per growing season. 2) Do not apply within 4 months after transplanting.

WALNUTS

Apply 2 to 4 quarts per acre. Do not apply when nuts are on the ground. Do not apply to Sandy soil. Leveling and furrowing operations after application will lessen effectiveness of weed control. Note: Do not apply when Nuts are on the ground or illegal residues may result.

SIMAZINE 4L HERBICIDE PLUS GRAMOYONE®

TANK MIX COMBINATION

APPLES, PEACHES, PEARS

This product plus Gramoxone tank-mix combination is effective in Apple. Peach and Pear orchards for kill of existing vegetation and for residual control of the Annual broadleaf weeds and grasses 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 to 200 gallons of water per acre to the orchard floor avoiding contact with fruit, folloge or stems. Add a non-ionic surfactant at the rate of 5-pints per 100 gallons. Apply when the weeds and grasses are susculant and the new growth is from 1 to 6 inches tall. Make only one application per year. Make applications only in orchards or growes where trees have been established one year or more. Do not spray under windly conditions and use a shfeld for young trees. Do not allow animals to graze treated areas.

Since this product enters weeds mainly through their roots, rainfall or irrigation is needed to move into the root zone.

	Broadcast* Rate Per Acre			
Стор	THIS PRODUCT	Gramoxone		
Apples	2 to 4 quarts	1 to 2 quarts		
Pears	2 to 4 quarts	1 to 2 quarts		
Peaches**	1% to 4 quarts	1 to 2 quarts		
	the low rate on Coarse textured soil a ne textured soil and high organic matter			
	re-or spot applications around frees, no			

This Product Plus Bromacil 80W for Grapefruit and Oranges (FL. Only)

Use in Grapefruit and Oranges in FL for control of Balsamapple, Black nightshade, Carpetweed, Crabgrass, Cudweed, Dayweed, Florida pusley, Horseweed, Pepperweed, Pigweed, Poorjoe, Ragweed, Rattlebox, Spanishneedles and Sandbur, and for partial control of Bermudagrass, Bahiagrass, Pangolagrass, Paragrass and Torpedograss. Apply 4 quarts of this product plus 3 to 4 pounds of Bromacil 80W per acre beneath trees in a minimum of 40 gallons of water per acre before or soon after weed growth begins. Use caution to keep the spray off the foliage, fruit or trunk of Citrus trees. When mixing, add Bromacil 80W slurry to water in spray tank, agitate thoroughly, then add this product and agitate thoroughly again. Use the lower rates for light weed infestations or all applications in bedded Citrus areas.

Use the higher rates for heavy weed infestations only in ridge grown Citrus areas. Temporary yellowing of Citrus leaves may occur following treatment.

USE PRECAUTIONS—To avoid crop injury: 1) Do not use in nurseries or where trees are under stress from freeze dantage for one year after the freeze. 2) Do not use on soil with less than 1%, organic matter or on poorly drained soil. 3) Do not treat trees planted in irrigation furrows. 4) Do not treat diseased trees such as those with foot rot. 5) Do not use in groves interplanted with other trees or desirable plants, or in home Grapefruit or Orange plantings, or increas where roots of other valuable plants or trees may planted. 6) Treated areas may be planted to Citrus trees one year after application. 7) Do not rotate to other crops within two years after application.

Note: Apply only once per year and a wid contact with foliage and fruit with spray or mist, or illegal residues may result, , , ,

THIS PRODUCT PLUS GRAMOXONE® EXTRA

This tank mix is effective in the following Fruit and Nut crops for kill of existing vegetation for residual control of the annual, Broadleaf and Grass weeds claimed for this product applied alone. This combination is also effective for top kill and suppression of perennial weeds. In FL, this mixture may be applied in Spring or Fall to emerged weeds.

Use this tank mix on these crops:

Almonds (CA only)	Macadamia nuts
Apples	Olives
Avocados (CA and FL [†] only)	Oranges ²
Cherries (Sour and Sweet 1)	Peaches ³
Filberts	Pears
Grapefruit (CA and TX only)	Pecans
Grapes	Plums ⁴
Lemons (AZ and CA only)	Walnuts

Apply the rate given for this product under the appropriate crop on this label plus 1½ to 2½ quarts Gramoxone Extra* in 50 to 200 gallons (30 to 50 gallons for Pecans) of water per acre to the orchard floor, avoiding contact with fruit, foliage or stems. Add a non-ionic surfactant, such as X-77*, at ½ pint per 100 gallons of spray. Apply when weeds are succulent and new growth is 1 to 6 inches tall. For mature woody weeds or difficult to control perennial weeds, retreat or spot treat with Gramoxone Extra if regrowth occurs. Add this product to the spray tank first (refer to "MIXING PROCEDURES" section of this label), then add Gramoxone Extra and the surfactant last. Provide constant agitation during mixing and application to keep the mixture in suspension.

USE PRECAUTIONS (To avoid crop injury): 1) Apply the tank mix only once per year. 2) Use a shield for young trees and vines.

Refer to this label and Gramoxone Extra labels for further directions, specific weeds controlled and precautions and limitations on each crop.

In Avocados in FL, this tank mix also controls Balsamapple, Rattail amaranth and at the higher rate of each herbicide, it suppresses Coral vine.

²In Oranges in FL, apply 4 qts. of this product per acre per application. Do not exceed 8 qts. of this product during any one growing season.

²Limited to AR, CA, LA, MO, OK, TX and states East of the Mississippi River. As

*Limited to AR, CA, LA, MO, OK, TX and states East of the Mississippi River. As appropriate, refer to sections "ALMONDS, PEACHES AND NECTARINES (CA ONLY)" or "PEACHES, PLUMS AND SWEET CHERRIES" for rate of this product and other information.

*Limited to MO and states East of the Mississippi River, except TN.
*Based on a product containing 1.5 lbs, of Gramoxone Extra per gallon.

TANK MIXTURE WITH ROUNDUP®

This tank mixture is effective in Grape vineyards and in the following bearing or non-bearing tree crops for control of existing vegetation and for residual control of the annual Broadleaf and Grass weeds claimed for this product applied alone. This combination is also effective for partial control of perennial weeds contacted by the spray mixture during application.

Use this tank mixture on these crops:

Almonds** (CA only)	Macadamia nuts**
Apples*	Oranges* (AZ, CA, FL and TX)
Avocados* (CA and FL only)	Peaches*1
Chemies (Sour and Sweet 2)	Pears*
Filberts**	Pecans**
Grapefruit* (CA, FL, TX)	Plums*2
Grapes*	Walnuts**
Lemons* (AZ and CA)	i
	L

Use the appropriate rate given elsewhere on this label for this product applied alone to the crop being treated. Add to the spray tank 1 to 5 qts. of Roundup per acre depending on weeds present and their growth state. Also add an agriculturally approved non-ionic surfactant at 0.5% by volume of spray solution. Apply the mixture in 10 to 40 gallons of water per acre as a post-emergence spray to the weeds at the appropriate weed growth stage given on the Roundup label.

Add this product to the spray tank first, then add Roundup. Provide constant agitation during mixing and application to keep the mixture in suspension. Refer to "APPLICATION PROCEDURES" section of this label for further directions.

USE PRECAUTIONS: To avoid crop injury, take extreme care to avoid contact of herbicide solution, spray, drift or mist with foliage or green bark of trunk, branches, suckers, fruit or other parts of trees or vines. Observe precautions on this label and Roundup label for each crop involved. Refer to the labels of both herbicides for further directions, specific weeds controlled and precautions and limitations on each crop.

"Allow a minimum of 14 days between last application and harvest.

"Allow a minimum of 21 days between last application and harvest of these crops.

'Limited to AR, CA, LA, MO, OK, TX and states East of the Mississippi River. For CA, see specific directions in the "ALMONDS, PEACHES AND NECTARINES (CA ONLY)"

Priums and Sweet chemies: Limited to MO and states East of the Mississippi River, except TN,

TANK MIXTURE WITH SOLICAM®

For improved control of such weeds as Clover, Cutleaf evening primrose, Dandelion, Henbit, Horseweed or Marestail, Lambsquarters and Puncturevine, apply this product in tank mixture with Solicam DF on these crops: Oranges, Grapefruit, Lemonts.

Apply 4 quarts per acre of this product plus 4 to 5 pounds of Solicam DF Herbicide (78.6% active ingredient) in 20 to 100 gallons of water per acre. This product + Solicam may be applied in tank mixture with Gramoxone Extra or Roundup.

Follow the labeled directions and restrictions of use on labels of the herbicides used in mixtures with this product.

USE PRECAUTIONS: Keep this product + Solicam mixtures from contacting foliage, fruits and stems of Citrus trees during spraying.

THIS PRODUCT PLUS SURFLAN®

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

Almonds	Lemons
Apples	Oranges
Avocados	Peaches
Caneberries	Pears
Chemies	Pecans
Filberts	Plums
Grapefruit	English Walnuts
Grapes	

Apply the rate given for this product under the appropriate crop on this label plus 2.67 to 5.33 lbs. of Surflan 75W or 2 to 4 qts. of Surflan A.S. in 20 to 40 gais. of water per acre. Refer to the Surflan 75W or Surflan A.S. label for complete tank mix directions and use 0.8 qt. of this product for each pound of Princep 80W. Observe all precautions and limitations on this label and Surflan labels.

FIELD AND FORAGE CROPS

CORN

Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for this product. (Determine the physical compatibility of this product with fertilizer before use. Refer to the "GENERAL INFORMATION" section of this label for a compatibility test procedure.) Do not apply after Corn has emerged there is danger of liquid fertilizers causing crop injury. Use 10 to 40 gallons of spray mixture per acre. Use a minimum of 10 gallons of spray mixture per acre.

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 seed-bed preparation. If soil is tilled or worked after application, avoid deep incorporation of this product. 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 than pre-emergence. If weeds develop, particularly under relatively dry conditions, a shallow cultivation will generally result in better weed control.

Soil Texture	Broadcast* rate per acre
Coarse textured soil: Sand, Silt and Loam that is low in organic matter.	4 pints
Medium textured soil: Soil containing mode- rate amounts of clay and organic matter	4.8 pints
Fine textured soil: Loam that is high in or- ganic matter and clay (including dark prairie soils of Com Belt)	6 pints
Organic soil: Peat, Muck and high-organic clay	8 pints
"For calculation of band treatment rate, see "GENERAL I	NFORMATION* section.

QUACKGRASS CONTROL: Broadcast 6 to 8 pints 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 fellowing treatment. Do not graze treated area. If weeds developped to the state of the second treatment of the second

WINTER ANNUAL BROADLEAF CONTROL—PRE-EMERGENCE FALL APPLICATION

For pre-emergence control of Winter annual weeds, such as Annual bluegrass, Common chickweed, Downy brome, Henbit, Shepherdspurse, Tansymustard, Wild mustard and others, broadcast 1 quart per acre of this product after harvest of the preceding crop and prior to weed emergence on land to be planted to Corn the following year. A tillage operation may precede the application. Do not apply to frozen ground. If this product is used in the Fall Corn weed control program, do not exceed 2 quarts of this product pre-emergence in the Spring.

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

- 1- Do not apply more than 8 pints of this product per acre to Corn in any one year.
- 2. Land treated with this product should not be plantibles any crop except Corn until the following year as injury may accur.
- 3. After harvest of a treated crop, plow and thoroughly, till the soil in Fall or Spring to minimize possible injury to Spring caled relational crops, regardless of rate usho.
- 4- If more than 6-pints of this product to used per zero (or equivalent rate in a band), a crop of untreated Corn should proceeds the next rotational crop.
- 5. De not apply this product pre plant incorporated for weed control in Corn in the High Plains and Intermountain areas of the West (including Control and Western KS, Western NE, Wastern 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 a crop of untreated Corn is to precede another rotational crop-
- 7. In Western MN and Eastern parts of the Daketas, NE and KS, do not rotate to Soybeans following Corn treated with this product if more than 1 pints of this product per acre (or equivalent rate in a band) was applied as injury may occur.
- Do not plant Sugar boots, Tobacco, Vogetables (including Dry beans).
 Spring cooded small Grains, or small cooded Legumes and Graccos the year after application of this product as injury may occur.

USE PRECAUTIONS: 1) Do not apply more than 8 pints of this product per acre of Corn per year. 2) Do not plant any crop except Corn until the following year, or injury may occur. 3) Following 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 this product is used at a rate higher than 6 pints per acre or equivalent band rate, a crop of untreated corn should precede the next rotational crop. 5) Do not apply this product pre-plant incorporated for weed control in Corn in the High Plains and Intermountain areas of the West fincluding 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 only when Corn is to follow Corn or when a crop of untreated Corn is to precede other rotational crops. 7) In Western MN and Eastern parts of the Dakotas, KS and NE, do not rotate to Soybeans if the rate applied was more than 4 pints per acre of equivalent band rate or 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 following application of this product or injury may occur.

THIS PRODUCT Rive Atrasine 4L Tank Mix Combination for Weed Control in CORN: Apply the tank mix combination of this product plus Atrazine 80W, 90DE, 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 Barnyardgrass, Carpetweed, Crabgrass, Fall genicum, Foxtail, Lambsquarters, Morningglory, Pigwood, Ragwaed and Velvetleaf, Apply in 10 to 40 gallons of water per acre.

PRE PLANT: Apply the tank mixture as a broadcast treatment in the Spring after playing either before, during or after final coodbad preparation. If soil is tilled or worked after application avoid deep incorporation of this product plus Atraxine 4L. Best results will be obtained when the tank mix is applied within 2 weeks before planting.

PRE EMERGENCE: Apply the tank mixture during or shortly after planting but or or to crop and weed emergence.

Pre Plant and Pre Emerger	nce Broadcast* Ratc	s per Acre
Soil Texture	THIS PRODUCT	Atrazine 4l
Sand, Loemy sand, Sandy loam	2 pints	2 pints
Silt loam and Cley loam low in organic matter	275 pints	2% pinta
Sit loam and Clay loam with medium to high organic matter and Clay (including dark prairie soils of the Com Belt)	3 pints	3 pints

Note:

- 1. If weeds develop, a shallow cultivation will generally result in better weed centrol.
- Following harvest of the treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in Fall or Spring to minimize possible injury to Spring seed rotational crops, regardless of the rate used.
- 3. Do not plant any crop except Corn until the following year, as injury may occur.
- 4. Do not plant Sugar boots, Tobacco, Vegetables (including Dry boans), Spring cooded small Grains or small-cooded Legumes and Grasses the year following application or injury may occur.

Refer to the Atrazine 4L label for further directions, limitations and

NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTER BELTS NURSERIES (see list below)

Apply 4 to 6 pints in at least 25 gallons of water per acre in Fall or Spring at least one year after transplanting.

CHRISTMAS TREE PLANTINGS AND SHELTER BELTS

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

Quackgrass Control: Apply 8 pints per acre in the Fall or apply a split application of 4 pints per acre in the Fall and 4 pints per acre in early Spring, after Quackgrass begins growth.

USE PRECAUTIONS:

- 1. Do not use this product on seedbeds or cutting beds.
- 2. Do not apply to Christmas tree or chelterbell-transplants loss than three years of age.
- 3. Do not apply more than once a year, except as directed for Quackgrass control.

Apply this product to these species of trees and shrubs, (as recommended above.)

American elm	Caragana —	Mugho pine	Red spruce
Austrian pine	Cotoneaster	Norway spruce	Russian olive
Abonitae	Dogwood-	Oregon grape	Scotch pine
Balsom fir	Douglas fir		Siberian elm
Berberry	Frescr fir	Red ceder	White coder
Blue spruce	Hemlock	Red oak	White pine
Boxelder	Honey locust	Red pine	White spruce
Bush honeysuckle -	Juniper	(Norway pine) -	Yew (Taxus spp.)

TURE GRASSES FOR SOD

ST. AUGUSTINE, CENTIPEDE, ZOYSIA GRASS

Apply 2 to 4 quarte per acre, according to ceil texture as indicated below.

Soil Texture	Rate Per Acre	Old Beds	New Beds
Muck or Peat	4 quarts	within 2 days after lifting of sod	3 to 4 days after sprigging or plugging
Sandy soil	2 quants	within 2 days after lifting of sod	7 to 10 days after sprigging or plugging
Apply an addition		uck or Peat or 1 qua	<u> </u>

USE PRECAUTIONS:

- 1. Do not apply within 30 days before cutting or lifting.
- 2. Do not use North of NC.

TUREGRASS FOR FAIRWAYS, LAWNS, SOD PRODUCTION AND SIMILAR AREAS (In states other than FL)

BERMUDAGRASS, CENTIPEDEGRASS, ST AUGUSTINEGRASS AND ZOYSIA GRASS

Apply after October 1 prior to emergence of Winter annual woods for control of Bluegrass. Burclover, Carpet burwood. Chickwood, Corn speedwell, Henbit, Hop clover and Spurwood. This product will control Annual bluegrass even if it is emerged at the time of treatment. For control of Summer annual weeds listed in the "General Internation" portion of this labet, also apply this product in late Winter before weeds emerge. Apply in a minimum of 15 gallons of water per acre or 1 gallon per 1,300 square feet.

Where Annual bluegrace is the major weed, use 1 quart per acre (22 ml or 14 fluid ounce per 1,000 square feet). Use 2 quarts per acre (44 ml or 1½ fluid ounces per 1,000 square feet) for control of other weeds named above. Do not exceed 1 quart per treatment on newly sprigged Turfgrace or on hybrid Bermudagrace such as Tiflawn, Tiflway and Ormand.

For continued Summer annual weed control, apply another 1 quart per acre at least 3 days after the previous application, but not after April 15. Do not make more than two applications per year.

Note: On newly sprigged Turfgrase and hybrid Bermudagrase, temporary clowing of growth and yellowing may occur following application. Use only on Turfgrase reasonably free of infectation of insects, nematodes and diseases. Do not use on golf greens. Do not use North of NC (except may be used in VA Coastal Plains) or West of the high rainfall areas of Eastern OK and Eastern TX. Do not use on Muck or alkaline soils. Do not apply over the rooting area of trees or ernamenals not listed on this label. Do not ev? "Tree with decirable turfgrass within 4 months before or 6 months after treatment. Do not apply to newly seeded Bermudagrass until it has everwintered and has a well developed rhizome system; "Do not exceed 3 quarts per acre within 12 months of seeding Bernudagrass.

TANK MIXTURE ON CORN

AAtrex*: Use this product in a pre-plant or pre-emergence tank mixture with AAtrex Nine-O*. AAtrex 80W or AAtrex 4L for control of many annual weeds including Carpetweed, Crabgrass, Fall panicum, Foxtail, Lambsquarters, Morningglory, Pigweed, Rugweed and Velvetleaf. Apply at the rates given in the following shart. Use the difference for most weeds and the 2:1 ratio for expected heavy infestations of Crabgrass and Fall panicum.

	Broadcast Rate Per Acre				
	1:1 Ratio		2:1 Ratio		
Soil Texture	This Product	AAtrex 80W*	This Product	AAtrex 80W*	
Sand, Loamy sand, Sandy loam	1 qt	1.25 lbs.	1.33 qts.	0.83 fb.	
Loam, Sitt loam, Sitt, Clay loam, Sandy clay loam, Sitty clay loam, Sandy clay or Sitty clay with low organic matter	1.2 qts.	1.5 lbs.	1.6 qts.	1 lb.	
Loam, Silt loam, Silt, Clay loam, Sandy clay loam, Sandy clay loam, Silty clay loam. Sandy clay or Silty clay with medium to high organic matter and Clay (including dark prairie soils of the Corn Belt)	1.44 qts.	1.8 lbs.	1.92 qts.	1.2 lbs.	

"When using AAtrex 4L or AAtrex Nine-O, use equivalent rates. One tb. of AAtrex 80W equals 0.8 qt. of AAtrex 4L or 0.9 lb. of AAtrex Nine-O.

Refer to the AAtrex label for complete directions. Also refer to the AAtrex label and the "CORN" section of this label for precautions and limitations.

Eradicane*: Use in a pre-plant incorporated tank mixture for control of all weeds claimed on both this label and Eradicane labels, including partial control (suppression) of Shattercane (Wild cane). Fluid fertilizer may replace all or part of the water in the spray. Check the physical compatibility of mixture with fertilizer before use. Refer to the "GEN-ERAL INFORMATION" section of this label for a compatibility test procedure. Use a minimum of 20 gallons of spray volume per acre. Refer to the Eradicane label for incorporation directions. Use the higher rate of this product on Fine textured soil and where heavy Broadleaf infestations are expected. Use the higher rate of Eradicane for heavy Nutsedge and Bermudagrass infestations. For partial control (suppression) of Shattercane, broadcast and incorporate immediately before planting 2 to 4 pints of this product plus 7.33 pints of Eradicane 6.7E (or 8 pints Eradicane Extra) per acre. For control of the other weeds claimed on both labels, broadcast and incorporate 2 to 6 pints of this product plus 4.75 to 7.33 pints of Eradicane 6.7E (or 5.33 to 8 pints of Eradicane Extra) per acre. Observe all precautions and limitations on this label and Eradicane labels.

Gramoxone Extra: Use in a tank mixture where Corn will be planted directly in a cover crop, established sod or previous crop residues. This combination controls existing vegetation and provides residual control of the annual Broadleaf and Grass weeds listed under the "GENERAL INFORMATION" section.

Add this product to the spray tank, mix thoroughly with water and then add Gramoxone Extra and a non-ionic surfactant. Provide constant agitation during mixing and application to keep the mixture in suspension.

Apply 4 to 6 pints of this product plus 1.5 to 2.5 pints of Gramoxone Extra* in 20 to 60 gallons of water per acre as a broadcast spray, either before or after planting, but before Corn emerges. Add a nonionic surfactant at the rate of \$\mathbb{C}\$5 pint per 100 gallons of spray volume. For further information, see "GENERAL INFORMATION", precautionary statements and notes on this product and the Gramoxone Extra labels.
*Based on a product containing 1.5 pounds of Gramoxone Extra per gallon.

Sutan+*: Use in a pre-plant incorporated tank mixture for control of all weeds claimed on this label and Sutan+ label, including partial control (suppression) of Shattercane (Wild cane). Fluid fertilizer may replace all or part of the water in the spray. Check the physical compatibility of mixture with fertilizer before use. Refer to the "GENERAL INFOR-MATION" section of this label for a compatibility test procedure. Use a minimum of 20 gals, of spray volume per acre. Refer to the Sutan+ label for incorporation directions. Use the higher rate of this product on Fine textured soil and where heavy Broadleaf infestations are expected. For partial control (suppression) of Shattercane, broadcast and incorporate immediately before planting 2 to 4 pints of this product plus 7.33 pints of Sutan+ 6.7E per acre. For control of the other weeds claimed on both labels, broadcast and incorporate 2 to 6 pints of this product plus 4.75 pints of Sutan+ 6.7E per acre. Observe all precautions and limitations on this label and Sutan+ labels.

NURSERIES, CHRISTMAS TREE PLANTINGS, SHELTERBELTS Nurseries (see list)

Apply 2 to 3 quarts in at least 25 gallons of water per acre in Fall or Spring.

USE PRECAUTIONS—To avoid plant injury: Do not apply for at least one year after transplanting.

Christmas Tree Plantings and Shelterbelts (see list)

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

For Quackgrass centrol, apply 4 quarts per acre in the Fall or apply a split application of 2 quarts per acre in the Fall plus 2 quarts per acre in early Spring, after Quackgrass begins growth.

USE PRECAUTIONS—To avoid tree injury: 1) Do not use this product 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 2 years of age. 3) Do not use until soil is firmly settled around roots. 4) Do not apply more than once a year, except as directed for Quackgrass control.

Apply this product to these species of trees and shrubs, as recommended above:

Conifers				
Arborvitae	Juniper	Red pine (Norway pine		
Austrian pine	Knobcone pine*	Red spruce		
Balsam fir	Lodgepole pine	Scotch pine		
Bishop pine*	(Shore pine)	White cedar		
Blue spruce	Monterey pine*	White fir		
Douglas fir	Mugho pine	White pine		
Fraser fir	Norway spruce	White spruce		
Hemlock	Red cedar	Yew (Taxus spp.)		
Decid	luous Trees and Woody	Omamentals		
American elm	Dogwood	Palm (2 qts./A)*		
Barberry	Eucalyptus	Pieris spp.		
Bottle brush*	Holly (liex spp.)	(max 3.2 qts/A)		
Boxelder	(max. 3.2 qts./A)	Red oak		
Bush honeysuckle	Honey locust	Russian olive		
Caragana	Oleander*	Siberian elm		
Carob*	Oregon grape	1 -		
	(Mahonia spp.)	1 -		

Surflan Tank Mix: On Christmas tree plantings, use this tank mix for pre-emergence control of weeds listed on the Surflan 75W (or Surflan A.S.) and this label. Use on field grown Conifer species listed on the labels for each herbicide plus Alpine fir, Black spruce, Colorado blue spruce, Coulter pine, Engelmann spruce, Giant redwood, Grand fir and Veitchi fir.

Broadcast the mixture as a directed spray to the soil surface or as an overtop spray, using 2 to 4 quarts of this product and 2.67 to 5.33 pounds of Surflan 75W (or 2 to 4 quarts of Surflan A.S.). Apply in sufficient water per acre to uniformly treat the area. Follow overtop sprays with sprinkler irrigation to move the herbicide from leaf surfaces to the soil. Remove weed growth before application. Mix weed residues, prunings or trash into the soil or remove them before treatment. Soil should be in good tilth and free of clods at time of application. Shallow cultivation (1 to 2 inches) after treatment will not reduce weed control. Observe all precautions and limitations on this label and Surflan labels.

Pennant® Tank Mix: This product may be tank mixed with Pennant Liquid herbicide to control weeds in containerized, field and liner® grown ornamentals and commercial landscapes. See the Pennant Liquid label for ornamental species, weeds controlled with this tank mixture and other information.

Note: Length of weed control may be reduced when continuous wet soil conditions follow herbicide application.

USE PRECAUTIONS—To avoid plant injury: 1) Do not use on seedbeds or on unrooted cuttings. 2) Do not use in greenhouses or other enclosed areas.

*Plants transplanted normally in rows in a nursery or similar area for further growth prior to transplanting to final growing place.

TURFGRASSES FOR SOD (FL Only)

St. Augustine grass, Centipedegrass, Zoysiagrass

Apply 2 to 4 quarts per acre, according to soil texture as indicated below:

Muck or Peat	4 qts.	Old beds	within 2 cays after lifting of sod
		New beds	3 to 4 days after sprigging or plugging
Sandy soil	2 qts.	Old beds	within 2 days after lifting of sod
		New beds	7 to 10 عرضا نا atter spriggifid or plugging

If weeds regrow, apoly an additional 2 quarts on Muck or Peat, or 1 quart on Sandy soil.

USE PRECAUTIONS—To avoid crop injury: 1) Do not apply within 30 days prior to cutting or lifting. 2) Do not apply in combination with surfactants or other spray additives. 3) Use only one Turfgrass reasonably free of infestations of insects, nematodes and diseases. 4) On newly sprigged Turfgrass, temperary slowing of growth may follow application.

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

*In states other than FL. For use on Turigrass for sod in FL, see *Turigrasses for Sod *(FL only)* section on previous page.

Bermudagrass, Centipedegrass, St. Augustine grass, Zoysiagrass Apply this product after September 1 (after October 1 for Annual bluegrass) before emergence of Winter annual weeds. This product will control Annual bluegrass, Burclover, Common and Mouseear chickweed, Corn speedwell, Henbit, Hop clover, Lawn burweed, Paisley-piert and Spurweed. This product will also control these weeds soon after emergence. For control of Summer annual weeds listed in the "GENERAL INFORMATION" section of this label, apply this product in late Winter before the weeds emerge. Apply in a minimum of 15 gallons of water per acre.

Irrigate with ½ inch of water if rainfall does not occur within 10 days after pre-emergence treatment.

Where Annual bluegrass is the major weed, use 1 quart of this product per acre (22 ml or 0.75 fluid ounces per 1,000 square feet). Use 2 quarts per acre (22 to 44 ml or 0.75 to 1.5 fluid ounces per 1,000 square feet) for control of other weeds. However, do not exceed 1 quart per acre per treatment on newly sprigged Turfgrass or on hybrid Bermudagrass such as Tiflawn, Tifway and Ormond.

For control of Summer annuals which emerge after the initial application, apply an additional 1 quart per acre at least 30 days after the initial application, but not after June 1. However, do not make more than 2 applications per year.

USE PRECAUTIONS—On newly sprigged Turfgrass, hybrid Bermudagrass, non-dormant Bermudagrass or non-dormant Zoysiagrass, temporary slowing of growth and yellowing may occur following application.

To avoid turf injury: 1) Use only on Turfgrass reasonably free of infestations of insects, nematodes and diseases. 2) Do not use on golf greens. 3) Do not use North of NC (except may be used in the VA Coastal Plains) or on soils with a pH above 7.8. 4) Do not use on Muck or Alkaline soils. 5) Do not apply over the rooting area of trees or ornamentals not listed on this label. 6) Do not seed or overseed with desirable Turfgrass within 4 months before or 6 months after treatment. 7) Do not apply this product to newly seeded Grasses until they have over-Wintered and have a well-developed rhizome system. 8) Do not exceed 2 quarts of product per acre within 12 months of seeding grasses.

Note: Do not graze or feed turf clippings to animals, or illegal residues may result.

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STORAGE AND DISPOSAL

Do not contaminate water, food or feed by storage and disposal. PESTICIDE STORAGE: 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. Do not stack over 2 pallets high. Move containers by handles or in cases. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid cross contamination. Store in original containers only. If the contents are leaking or material is spilled, follow these steps:

 Contain spill, absorb with a material such as a sawdust, clay granules or dirt.

2. Collect and place in suitable containers for disposal.

3. Wash area with soap and water to remove remaining pesticide.

4. Follow washing with clean water rinse.

Do not allow runoff to enter sewer or contaminate water supplies.

6. Dispose of wastes 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: Triple rinse (or equivalent). Then offer for recycling or reconditioning or puncture and dispose of in a sanitary landfill or incineration, or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

WARRANTY-CONDITION OF SALE

OUR RECOMMENDATIONS FOR USE_of this product are based upon tests believed reliable. 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 and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in stracture accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

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