

19713-171

09/25/2003

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
PREVENTION, PESTICIDES  
AND TOXIC SUBSTANCES

SEP 25 2003

Ms. Luz G. Piwonka  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

Dear Ms. Piwonka:

Subject: Label Amendment  
Drexel Simazat 4L  
EPA Reg. No. 19713-171  
Your submission dated June 25, 2003

The amendment referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act (FIFRA), as amended is acceptable provided that you:

1. Under the heading of Personal Protective Equipment (PPE) add the following text:

Applicators and other handlers not using Engineering Controls must wear:

Coveralls over long-sleeved shirt and long pants,  
Chemical resistant gloves such as barrier laminate, butyl rubber, nitrile rubber or viton  
Chemical resistant footwear plus socks,  
Chemical-resistant headgear (if overhead exposure),  
A NIOSH approved dust mist filtering respirator with the appropriate N, R, P or HE filter, and  
Chemical resistant apron (for mixers, loaders, cleaners of equipments or spills)

2. Revise the Environmental Hazards text to include the following:

Atrazine and Simazine can travel...water when disposing of equipment washwaters.

Product must not be mixed or loaded, or used within 50 feet of all wells, including abandoned wells, drainage wells, and sink holes. Operations that involve mixing, loading, rinsing, or washing of this product into or from pesticide handling or application equipment or containers within 50 ft. of any well are prohibited, unless conducted on an impervious pad constructed to withstand the weight of the heaviest load that may be positioned on or moved across the pad. Such a pad shall be designed and maintained to contain any product spills or equipment leaks, container or equipment rinse or wash water, and rain water means that may fall on the pad. Surface water shall not be allowed to either flow over or from the pad which means the pad must be self-contained. The pad shall be sloped to facilitate material removal. An unroofed pad shall be of sufficient capacity to contain at a minimum 110% of the capacity of the largest pesticide container or application equipment on the pad. A pad that is covered by a roof of sufficient size to completely exclude precipitation from contact with the pad shall have a minimum containment of 100% of the capacity of the largest pesticide container or application equipment on the pad. Containment capacities as described above shall be maintained at all times. The above-specified minimum containment capacities do not apply to vehicles when delivering pesticide to the mixing/loading sites.

Additional State imposed requirements regarding well-head setbacks and operational area containment must be observed.

Product must not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. Product must not be applied within 66 feet of points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet of natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff entry points must be planted to crop, or seeded with grass or other suitable crop.

Tiled Fields Containing Standpipes

- 1) Do not apply...fields.
- 2) Apply this product...terraced field.
- 3) Apply this product ...after crop harvest.

3. Under the heading Precaution for All Applications to Corn revise as follows:

- 1) When tank-mixing or sequentially applying atrazine or products containing atrazine to corn or sorghum, the total pounds of atrazine applied (lbs ai/A) must not exceed the specific seasonal rate limits from preemergence, or postemergence, or preemergence + postemergence applications as noted in the use limitation table in the use directions.

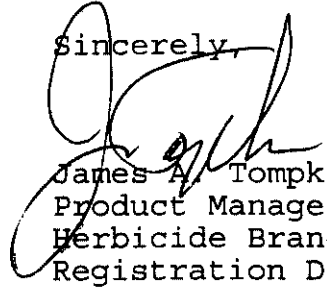
- 2) Following harvest...rate used.
- 3) Do not graze treated area or feed treated forage to livestock for 60-days for field corn and 45-days for sweet corn.
- 4. Under the heading Agricultural Use Requirements revise to include the following text:  

PPE required for early...soil, or water, is:  
  
coveralls, shoe plus socks, chemical-resistant gloves made of any waterproof material
- 5. Incorporate the attached "Spray Drift Labeling" language into this label.

Submit one (1) copy of your final printed labeling before you release the product for shipment. The enclosed stamped label supersedes all previous labels.

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

Sincerely,



James A. Tompkins  
Product Manager (25)  
Herbicide Branch  
Registration Division (7505C)

# RESTRICTED USE PESTICIDE

(GROUND AND SURFACE WATER CONCERNS)

For retail sale and use only by certified applicators or persons under their direct supervision and only for those uses covered by the certified applicator's certification.

This product is a restricted use herbicide due to ground and surface water concerns. Users must read and follow all precautionary statements and instructions for use in order to minimize potential for atrazine to reach ground and surface water.

**ACCEPTED**  
with **COMMENTS**  
In EPA Letter Dated:

SEP 25 2003

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 19713-171



# Simazat™ 4L

Herbicide

For season-long weed control in Christmas tree plantations, Corn and Quackgrass control.

### ACTIVE INGREDIENTS:

Atrazine .....	20.76%
Related compounds .....	0.66%
Simazine .....	21.41%
<b>OTHER INGREDIENTS:</b> .....	<b>57.17%</b>
<b>TOTAL:</b> .....	<b>100.00%</b>

Contains 2 pounds of Simazine and 2 pounds of Atrazine as active ingredients per gallon. Contains total of 4 pounds per gallon active material.

**KEEP OUT OF REACH OF CHILDREN**

## CAUTION

See **FIRST AID** Below  
**SHAKE WELL BEFORE USING**

EPA Reg. No. 19713-171

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 or convulsing person.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

#### IF IN EYES:

- 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 rinsing eye.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

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. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Information Center at 1-800-858-7378.

**NOTE TO PHYSICIAN:** There is no specific antidote for atrazine. If this product is ingested, induce emesis or lavage stomach. The use of an aqueous slurry of activated charcoal may be considered.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Harmful if swallowed, inhaled or absorbed through skin. Causes moderate eye irritation. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed in the next column. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

**Applicators and other handlers must wear:** Long-sleeved shirt and long pants, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride, chemical resistant footwear plus socks and protective eyewear.

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.

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements of 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.

### 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. 3) Then wash thoroughly and put on clean clothing.

### ENVIRONMENTAL HAZARDS

Atrazine and Simazine can travel (seep or leach) through soil and can enter groundwater which may be used as drinking water. Atrazine and Simazine have been found in groundwater. Users are advised not to apply Atrazine and Simazine to sand and Loamy sand soils where the water table (groundwater) is close to the surface and where these soils are very permeable, i.e., well-drained. Your local agricultural agencies can provide further information on the type of soil in your area and the location of groundwater.

Ground water contamination may be reduced by diking and flooring of permanent liquid bulk storage sites with an impermeable material. This pesticide is toxic to aquatic invertebrates. For terrestrial uses, do not apply directly to water, or to areas where surface water is present, or to intertidal areas below the mean high water mark. Run-off and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

Manufactured By:

**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327

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This product may not be mixed/loaded, or used within 50 feet of all wells including abandoned wells, drainage wells and sink holes. This product may not be mixed or loaded within 50 feet of intermittent streams and rivers, natural or impounded lakes and reservoirs. This product may not be applied aerially or by ground within 66 feet of the points where field surface water runoff enters perennial or intermittent streams and rivers or within 200 feet around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or setback from runoff points must be planted to crop or seeded with grass or other suitable crop.

**TILE-TERRACED FIELDS CONTAINING STANDPIPES**

To ensure protection of surface water from runoff through standpipes and tile outlets in terraced fields, one of the following options may be used:

- 1) Do not apply this product within 66 feet of standpipes in tile-outletted terraced fields.
- 2) Apply this product to the entire tile-outletted terraced field and immediately incorporate it to a depth of 2 to 3 inches in the entire tile-outletted terraced field.
- 3) Apply this product to the entire tile-outletted terraced field under a no-till practice only when high crop residue management practices are used. High crop residue management practice is described as a crop management practice where little or no crop residue is removed from the field during or after crop harvest.

**DIRECTIONS FOR USE**

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

**RESTRICTED USE PESTICIDE**

Do not apply this product through any type of irrigation system. 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, 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 Worker Protection Standard. Do not enter or allow worker entry into treated areas during the restricted entry interval of 12 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil or water is: Chemical-resistant gloves made of any waterproof material, coveralls, chemical resistant footwear plus socks and protective eyewear.

SIMAZAT 4L is a herbicide that should be applied before weeds emerge or following removal of weed growth. It controls a wide variety of annual Broadleaf and Grass weeds when used at selective rates in agricultural and ornamental crops.

In each case where a range of rates is given, the lower rate should be used on Light soils and soils low in organic matter, and the higher rates should be used on Heavy soils high in organic matter. This product acts mainly through root absorption, its effectiveness depends on rainfall or irrigation to move it into the root zone. Should weeds develop, a shallow cultivation or rotary hoeing will generally result in better weed control.

This product is non-corrosive to equipment and non-flammable. Care should be taken to avoid using this product where adjacent desirable trees, shrubs or plants might be injured.

**APPLICATION PROCEDURES**

**Ground Application:** For the most uniform distribution of broadcast applications use 80° flat fan type nozzles. For band applications, use flat even spray nozzles. Screens and strainers should be no finer than 50 mesh. Use a pump with capacity to: 1) provide sufficient hydraulic agitation during mixing and application to keep the material in suspension; and 2) maintain 35 to 40 psi operating pressure.

Use a minimum of 5 gallons of water per acre for pre-plant incorporated, pre-emergence and post- (without oil or surfactant) applications. Use a minimum of 10 gallons of water per acre for all post-emergence applications combined with surfactant.

**For band applications calculate the amount to be applied per acre as follows:**

$$\frac{\text{Band width in inches}}{\text{Row width in inches}} \times \text{Rate Per Acre for broadcast treatment} = \text{Amount needed for band treatment}$$

**Aerial Applications:** For pre-plant and pre-emergence treatments, apply at 1:1 ratio of this product to water (example: recommendation calls for 1 quart of product and is mixed with 1 quart of water) to be applied per acre. For post-emergence treatments, apply the recommended rate of this product in a minimum of 2 gallons of water per acre. Avoid applications under conditions where uniform coverage cannot be obtained or where excessive drift may occur.

**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 material in suspension.

All return lines to the tank must discharge below liquid level and agitation should not be so violent as to cause air bubbles to form in the liquid. Wash sprayer thoroughly after use.

**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.

**CORN**

Post-emergence application to Corn must be made before Corn reaches 12 inches in height.

For post-emergence applications, if there has been no previous soil application, the maximum rate of atrazine application is 2 pounds per acre. If there has been a previous soil application, do not exceed a total of 2.5 pounds of atrazine per acre per calendar year. Nitrogen solutions or complete liquid fertilizers may replace all or part of the water as a carrier for this product. Do not apply after Corn has emerged as there is danger of liquid fertilizers causing crop injury. Use 10 to 40 gallons of spray mixture per acre.

This product may be applied either before planting, at planting or after planting as indicated below.

**Pre-plant (Broadleaf and Grass Control):** Broadcast in the Spring after plowing at the rate indicated in Table 1. Application may be made before, during or after final seedbed preparation. If soil is tilled or worked after application, avoid deep incorporation of this product. Best results have been obtained when this product is applied within two weeks prior to planting.

**Pre-emergence (Broadleaf and Grass Control):** Apply during or shortly after planting prior to weed emergence at the rate indicated in Table 1.

**Post-emergence (Broadleaf and Grass Control):** Apply before weeds exceed 1.5 inches in height at the rate indicated in Table 1.

**FOR SOIL APPLICATIONS PRIOR TO CROP EMERGENCE (i.e., early pre-plant, pre-plant incorporated, pre-plant surface, at planting or pre-emergence) the following applies:** On Highly Erodible Soils, as defined by the Soil Conservation Service (SCS), if conservation tillage is practiced, leaving at least 30% of the soil covered with plant residue, the maximum rate is 8 pints per acre as a broadcast spray. If the soil coverage with plant residue is less than 30% at planting, a maximum rate of 6.4 pints per acre may be applied. On Soils Not Highly Erodible, the maximum rate is 8 pints per acre as a broadcast spray.

TABLE 1 FOR CONTROL OF BROADLEAF AND GRASSES*	
Soil Texture	Broadcast Rate Pints per Acre
LIGHT SOILS: Sands, Loamy sands and Sandy loams	4 pints
MEDIUM SOILS: Silt and Clay loams that are low in organic matter	4.75 pints
HEAVY SOILS: Silt and Clay loams with medium to high organic matter and Clay (including the dark prairie soils of the Corn Belt)	6 pints
PEATS, MUCK AND HIGH ORGANIC CLAYS: apply post-emergence only	6 pints

\*For Pre-plant or Pre-emergence Applications in West KS, Western NE, Eastern CO, Eastern WY, NM, West TX and the Pan Handle of OK: On Sands, Loamy sands, Sandy loams, mild to strongly alkaline soils and all recently leveled soils, apply 2.4 pints per acre for Broadleaf weed control. Broadleaf weeds such as Kochia, Lambsquarters, Nightshade, Pigweed and Purslane will be controlled. On other soil types in the areas above, make applications at the rate shown in Table 1 for Broadleaf and Grass control.

**Applications For Quackgrass control on land going into Corn production—Split Application:** Broadcast 4 pints per acre in the Spring and plow 1 to 3 weeks later.

Broadcast a second application at the rate of 4 pints per acre in the Spring before, during or after planting, but before weeds are 1.5 inches high. This split application will control both Quackgrass and most annual Broadleaf and Grass weeds.

**Single Application:** Broadcast 6 to 8 pints per acre in the Spring. Plow 1 to 3 weeks after application.

Applications for Quackgrass suppression in Corn are restricted to a Spring application only. No Fall applications are permitted.

#### TANK MIXTURES WITH THIS PRODUCT

**THIS PRODUCT Plus Paraquat Tank Mix for No-Till Corn:** For control of existing vegetation and residual control where Corn will be planted directly into a cover crop, established sod or in previous crop residues—Broadcast 4 to 6 pints of this product and 1 to 2 pints of paraquat per acre in 20 to 60 gallons of water per acre. Add 8 ounces of non-ionic surfactant per 100 gallons of diluted spray. Add this product to spray tank first and thoroughly mix with water. Add the paraquat and surfactant last. Refer to the paraquat label for further directions, limitations and cautions.

#### Precautions For All Applications to Corn:

1. Do not apply more than 8 pints of this product to Corn in any one year.
2. Following harvest of a treated crop, plow (moldboard or disk-plow) and thoroughly till the soil in the Fall or Spring to minimize possible injury to rotational spring-seeded crops, regardless of the rate used.
3. Do not graze treated area or feed treated forage to livestock for 21 days following application.

#### Suggestions For Rotational Crops:

1. Land treated with this product should not be planted to any crop except Corn or Sorghum until the following year or injury may occur.
2. If this product is applied after June 10, do not rotate with crops other than Corn or Sorghum the next year or injury may occur.
3. If this product is used at a broadcast rate higher than 4 pints per acre (or comparable rates in a band application), a crop of untreated Corn or Sorghum should precede the next rotational crop.
4. In the High Plains and Intermountain area 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 or Sorghum is to precede other rotational crops.
5. In Western mountain and Eastern parts of the Dakotas, NE and KS, Corn treated with this product should not be followed with Soybeans if the broadcast rate applied was more than 4 pints per acre (or comparable rate in a band) or injury may occur.
6. Injury may occur to Soybeans planted in North Central IA and South Central MN the year following an application of this product on Canisteo, Harps, Stroden or other soils having a calcareous surface layer.
7. 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.

**CHRISTMAS TREE PLANTATIONS:** Douglas fir, Grand fir, Noble fir, White fir, and Scotch pine in the Pacific Northwest - West of Cascade only (Annual Broadleaf and Grass Weed Control): Broadcast 2 to 4 quarts in 20 to 40 gallons of water per acre to assure thorough coverage. For band applications, reduce rate of this product and volume of water in proportion to the acre treated. For example, when treating a 4 foot band over trees planted in rows 8 feet apart, apply 1 to 2 quarts per acre.

Apply between Fall and early Spring while trees are dormant or soon after transplanting and before weeds are 1.5 inches high.

**QUACKGRASS CONTROL:** Broadcast 4 quarts per acre in 20 to 40 gallons of water for adequate coverage. Apply in Fall or early Spring while trees are dormant and before weed seedlings are more than 1.5 inches high. This application will also control most annual broadleaf and grass weeds. e/c

#### Use Precautions:

1. Do not graze treated areas.
2. Do not apply to seedbeds.
3. Do not make more than one application per year.

### STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in a cool, dry location. Avoid storage at high temperatures. Keep container tightly sealed. Avoid contamination with acids or alkalis. Do not stack more than 2 pallets high to prevent crushing. Keep containers away from any source of puncture. Store in original container only. Pesticides should be separated during storage to prevent cross contamination of other pesticides, fertilizer, food and feed. Storage area should preferably be locked to prevent admittance by unauthorized or unknowledgeable persons. If the container is damaged and leaking or material has been spilled follow these procedures:

1. Cover spill with absorbent material.
2. Sweep into disposal container.
3. Wash area with detergent and water and follow with clean water rinse.
4. Do not allow to contaminate water supplies.
5. Dispose of according to instructions 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 by incineration or, if allowed by State and Local authorities, by burning. If burned, stay out of smoke.

### WARRANTY—CONDITIONS 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 strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.