

yellow

PM 23

19713-171

1/14

Ms. Barbara Brown
 Drexel Chemical Company
 P.O. Box 13327
 1700 Channel Ave.
 Memphis, TN 38113-0327

MAY 08 1996

Dear Ms. Brown:

SUBJECT: Amendment - Deletion of Sugarcane Use
 Drexel Simazat 4L Herbicide
 EPA File Symbol: 19713-171
 Your Application Dated September 15, 1995

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable, provided you make the following changes:

1. Revise the dermal statement of practical treatment to read as follows:

"IF ON SKIN: Wash with plenty of soap and water. Get medical attention."

2. Add the following inhalation statement of practical treatment:

"IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention."

3. Revise the HAZARDS TO HUMANS AND DOMESTIC ANIMALS section (above the PERSONAL PROTECTIVE EQUIPMENT requirements) to read as follows:

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

4. Delete the directions "For control of emerged Pellitary Weeds (artillery weed) (Florida only)" on sugar cane and the succeeding "Precautions" section which applies only to the deleted sugar cane use.

RD:STANTON:PM Team 23:Rm. 235:CM-2:305-5218:Disk #2:S495202.LET

CONCURRENCES

SYMBOL ▶	7505C							
SURNAME ▶	S. Stanton							
DATE ▶	May 8, 1996							

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The revisions required in items 1, 2 and 3 are based on submitted acute toxicity studies which indicate that this product is in TOX category III for acute oral, dermal and inhalation toxicity; TOX category III for eye irritation potential; and TOX category IV for skin irritation potential. Your November 1, 1993 submission to comply with the requirements of PR Notice 93-7 indicates TOX category IV, rather than III, for dermal toxicity and eye irritation potential. It is unclear whether the Agency's review of the acute toxicity studies, dated October 5, 1987, was previously sent to Drexel. Therefore, I am enclosing a copy for your records at this time.

Sincerely yours,

Joanne I. Miller
Product Manager (23)
Fungicide-Herbicide Branch
Registration Division (7505C)

Enclosures

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Restricted Use Pesticide
(Ground and Surface Water Concerns)

For retail sale to and use only by certified applicators or persons under their direct supervision, and only for those uses covered by the certified applicator's certification. This product is a restricted use pesticide 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.

Drexel Simazat 4L Herbicide
For Season-Long Weed Control in Corn, Sugar-Cane,
and Christmas Tree Plantations, Quackgrass Control

ACTIVE INGREDIENTS:

Atrazine [2-chloro-4-ethylamino-6-isopropylamino-s-triazine]	20.76%
Related Compounds	0.6
Simazine [2-chloro-4,6-bis (ethylamino)-s-triazine].	21.4
INERT INGREDIENTS:	57.
TOTAL:	100.0

Simazat 4L contains 2.0 lbs. of Simazine and 2.0 lbs. of Atrazine as active ingredient per gallon. Contains 4 lbs. per gallon Active Material.

RECEIVED
 with COMMENTS
 In EPA Letter Dated
 MAY 08 1996

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

KEEP OUT OF REACH OF CHILDREN
CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF SWALLOWED: Contact your local Poison Control Center, hospital or physician. If the patient is unconscious, maintain breathing and heartbeat (cardiopulmonary resuscitation). If the patient is conscious and alert, induce vomiting (stimulate the back of the throat with finger). Never Give Anything By Mouth To An Unconscious Person!!

IF ON SKIN: If irritation develops, get medical attention.

IF IN EYES: Flush with plenty of water. Get medical attention if irritation persists.

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.

EPA REG. NO. 19713-171
 EPA EST. NO. 19713-MS-1
 Revised: 04/25/94
 Deleted Sugarcane - 09/15/95

Manufactured By: Drexel Chemical Company
 P. O. Box 13327
 Memphis, TN 38113-0327

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PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Avoid application directly to animals or humans. Flagmen or loaders should avoid inhalation of spray mist or contact with skin.

HARMFUL OR FATAL IF SWALLOWED: Avoid breathing of Spray. Do Not Take Internally. Causes moderate eye irritation. Avoid contact with eyes, skin or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and other handlers must wear:

Long-sleeved shirt and long pants

Waterproof gloves

Chemical resistant footwear plus socks

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: Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Remove clothing immediately if pesticide gets inside. 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. Runoff and drift from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

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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 ft. around natural or impounded lakes and reservoirs. If this product is applied to highly erodible land, the 66 foot buffer or set-back from runoff points must be planted to crop or seeded with grass or other suitable crop.

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 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, and 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), restricted-entry interval. 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 (REI) 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:

- Coveralls
- Waterproof gloves
- Chemical resistant footwear plus socks
- Protective eyewear

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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.

SIMAZAT 4L 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.

SIMAZAT 4L is noncorrosive to equipment and nonflammable. Care should be taken to avoid using SIMAZAT 4L where adjacent desirable trees, shrubs or plants might be injured.

APPLICATION PROCEDURES

Ground Application: For the most uniform distribution of broadcast applications use 80ø 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 35-40 psi operating pressure.

Use a minimum of 5 gallons of water per acre for preplant 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:

$$\begin{array}{rcl}
 \text{Band width in inches} & \times & \text{Rate/A for} \\
 \text{Row width in inches} & & \text{broadcast} \\
 & & \text{treatment}
 \end{array}
 =
 \begin{array}{r}
 \text{Amount needed} \\
 \text{for band} \\
 \text{treatment}
 \end{array}$$

Aerial Applications: For preplant and pre-emergence treatments, apply at 1:1 ratio of SIMAZAT 4L 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 SIMAZAT 4L 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.

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MIXING INSTRUCTIONS

Mix SIMAZAT 4L with water and apply as a spray. Pour SIMAZAT 4L 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 SIMAZAT 4L in 20 to 40 gals. of water per acre.

Aerial Application: Use a minimum of one gal. of water for each quart of SIMAZAT 4L 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 SIMAZAT 4L. Do not apply after corn has emerged as there is danger of liquid fertilizers causing crop injury. Use 10 to 40 gals. of spray mixture per acre.

SIMAZAT 4L may be applied either before planting, at planting or after planting as indicated below.

Preplant (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 SIMAZAT 4L. Best results have been obtained when SIMAZAT 4L 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 preplant, preplant incorporated, preplant surface, at planting or preemergence) the following applies:

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FOR ALL SOIL APPLICATIONS PRIOR TO CROP EMERGENCE

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 pts./A as a broadcast spray. If the soil coverage with plant residue is less than 30% at planting, a maximum rate of 6.4 pts./A may be applied. On Soils Not Highly Erodible, the maximum rate is 8 pts./A as a broadcast spray.

**TABLE 1
FOR CONTROL OF BROADLEAF AND GRASSES¹**

SOIL TEXTURE	SIMAZAT 4L BROADCAST RATE/A
Light Soils: sands, loamy sands and sandy loams	4 pts.
Medium Soils: silt and clay loams that are low in organic matter	4 3/4 pts.
Heavy Soils: silt and clay loams with medium to high organic matter and clay (including the dark prairie soils of the Corn Belt)	6 pts.
Peats, muck and high organic clays (apply post-emergence only)	6 pts.

1) For Preplant or Pre-emergence Applications in West Kansas, Western Nebraska, Eastern Colorado, Eastern Wyoming, New Mexico, West Texas and the Pan Handle of Oklahoma. On sands, loamy sands, sandy loams, mild to strongly alkaline soils and all recently leveled soils, apply 2-2/5 pints per acre for broadleaf weed control. Broadleaf weeds such as pigweed, lambsquarters, nightshade, purslane and kochia 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 pts. per acre in the spring and plow 1-3 weeks later.

and erratic or where irrigation is required, use SIMAZAT 4L to control weeds in corn only when corn is to follow corn or soybeans.

Broadcast a second application at the rate of 4 pints per acre in the spring before, during or after planting, but before weeds are 1-1/2 inches high. This split application will control both quackgrass and most annual broadleaf 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 SIMAZAT 4L

SIMAZAT 4L 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 SIMAZAT 4L and 1 to 2 pints paraquat per acre in 20 to 60 gallons of water per acre. Add 8 oz. of nonionic surfactant per 100 gallons of diluted spray. Add SIMAZAT 4L 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 SIMAZAT 4L 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 SIMAZAT 4L should not be planted to any crop except corn or sorghum until the following year or injury may occur.
- 2. If SIMAZAT 4L is applied after June 10, do not rotate with crops other than corn or sorghum the next year or injury may occur.
- 3. If SIMAZAT 4L is used at a broadcast rate higher than 4 pts. 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 SIMAZAT 4L 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, Nebraska and Kansas, corn treated with SIMAZAT 4L should not be followed with soybeans if the broadcast rate applied was more than 4 pts. per acre (or comparable rate in a band) or injury may occur.
- 6. Injury may occur to soybeans planted in North Central Iowa and South Central Minnesota the year following a SIMAZAT 4L application on Harps, Canisteo, 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 SIMAZAT 4L application or injury may occur.

SUGAR CANE:

~~For control of non-rhizomatous weeds, such as crabgrass, jungle rice, wire grass, foxtail, amaranths, Flora's paint brush, fireweed and similar plants. Broadcast 2 to 4 pts. per acre in 20 to 50 gallons of water for adequate coverage of the soil surface at time of planting or ratooning, but before the cane emerges. One additional application may be made over the cane as it emerges, and two additional applications may be made interline after emergence, as a directed spray.~~

For control of emerged Pellitory Weeds (artillery weed)(Florida only): Apply 1/2 to 3/4 pints per acre in 40 gallons of water per acre as a directed spray. Add 2 quarts of surfactant for each 50 gallons of spray and be sure weed foliage is thoroughly covered.

Precautions:

- 1. Do not apply SIMAZAT 4L after "Close-in."
- 2. Do not apply more than 9-1/2 qts. of SIMAZAT 4L to any one crop of cane.

CHRISTMAS TREE PLANTATIONS: Douglas Fir, Grand Fir, Noble Fir, White Fir, and Scotch Pine (Pacific Northwest - west of Cascade only). Annual broadleaf and grass weed control. Broadcast 2 to 4 qts. in 20 to 40 gallons of water per acre to assure thorough coverage. For band applications, reduce rate of SIMAZAT 4L 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 qts. per acre. Apply between fall and early spring while trees are dormant or soon after transplanting and before weeds are 1 1/2 inches high.

QUACKGRASS CONTROL: Broadcast 4 qts. 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 1/2 inches high. This application will also control most annual broadleaf and grass weeds.

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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, disposal.

STORAGE INSTRUCTIONS:

Store in a cool dry location. Avoid storage at high temperatures. Keep container tightly sealed. Avoid contamination with acids or alkalies. 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 - 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 Drexel 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 Seller and is accepted as such by the Buyer.

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**SUPPLEMENTAL LABELING FOR USE ON CORN
ALL APPLICABLE DIRECTIONS, RESTRICTIONS AND PRECAUTIONS ON
THE EPA REGISTERED LABEL ARE TO BE FOLLOWED.**

**RESTRICTED USE PESTICIDE
(GROUND AND SURFACE WATER CONCERNS)
FOR RETAIL SALE TO AND USE ONLY BY CERTIFIED APPLICATORS OR
PERSONS UNDER THEIR DIRECT SUPERVISION, AND ONLY FOR THOSE
USES COVERED BY THE CERTIFIED APPLICATOR'S CERTIFICATION.
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.**

**DREXEL
Simazat 4L
HERBICIDE
For Season-Long Weed Control in Corn**

DIRECTIONS FOR USE:

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

CORN

Post-emergence application to corn must be made before corn reaches 12 inches in height. For postemergence 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.

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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 pts./A as a broadcast spray. If the soil coverage with plant residue is less than 30% at planting, a maximum rate of 6.4 pts./A may be applied. On Soils Not Highly Erodible, the maximum rate is 8 pts./A as a broadcast spray.

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3. Do not graze treated area or feed treated forage to livestock for 21 days following application.

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