



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460  
DEC 9 1993

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Theresa Kamicker  
CIBA-GEIGY CORP.  
P.O. BOX 18300  
GREENSBORO, N.C. 27419

Subject: Label Amendment Submission of 07/16/93 in Response to PR Notice 93-7  
EPA Reg. No. 100-620  
CAPAROL 4L HERBICIDE

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted subject to the comments reflected on the enclosed sheet. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

**WHAT THIS ACCEPTANCE MEANS:**

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

**WHAT YOU NEED TO DO NEXT:**

By the next label printing make all the specified changes to your labeling. Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND —
- WITHIN one year from date of this acceptance.



Recycled/Recyclable  
Printed with Soy/Canola Ink on paper that  
contains at least 50% recycled fiber

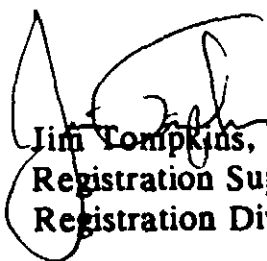
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs (7505C)  
U.S. Environmental Protection Agency  
401 M Street, SW  
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)  
Office of Pesticide Programs  
Room 266A, Crystal Mall 2  
1921 Jefferson Davis Highway  
Arlington, VA 22202

Sincerely,

  
Jim Tompkins, Deputy Chief  
Registration Support Branch  
Registration Division (7505W)

Attachment

WPS

Caparol® 4L

Herbicide

For selective weed control  
in cotton, celery, and pigeon peas

Active Ingredient:

Prometryn: 2,4-bis(isopropylamino)-  
6-(methylthio)-s-

triazine .....	44.4%
Inert Ingredients:	55.6%
Total:	100.0%

2 1/2 Gallons  
U.S. Standard Measure

Caparol 4L contains 4 lbs.  
prometryn per gallon.

Shake well before using.

KEEP OUT OF REACH OF CHILDREN.

CAUTION

See additional precautionary statements  
and directions for use inside booklet.

EPA Reg. No. 100-620  
EPA Est. 100-LA-1

CGA 17L6E 042  
CGA 17L7G 042

Ciba-Geigy

[GANNONC.LABELC]CAP4LWPS - 7/9/93

ACCEPTED  
with COMMENTS  
in EPA Letter Dated

DEC 9 1993

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

100-620

DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire Directions for Use and the Conditions of Sale and Warranty before using this product. If terms are not acceptable, return the unopened product container at once.

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Conditions of Sale and Warranty

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The Directions for Use of this product reflect the opinion of experts based on field use and tests. The directions are believed to be reliable and should be followed carefully. However, it is impossible to eliminate all risks inherently associated with use of this product. Crop injury, ineffectiveness, or other unintended consequences may result because of such factors as weather conditions, presence of other materials, or the manner of use or application all of which are beyond the control of Ciba-Geigy or the Seller. All such risks shall be assumed by the Buyer.

Ciba-Geigy warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes referred to in the Directions for Use subject to the inherent risks referred to above. Ciba-Geigy makes no other express or implied warranty of Fitness or Merchantability or any other express or implied warranty. In no case shall Ciba-Geigy or the Seller be liable for consequential, special, or indirect damages resulting from the use or handling of this product. Ciba-Geigy and the Seller offer this product, and the Buyer and user accept it, subject to the foregoing Conditions of Sale and Warranty, which may be varied only by agreement in writing signed by a duly authorized representative of Ciba-Geigy.

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, 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) and 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. Exception: if the product is soil-injected or soil-incorporated, the Worker Protection Standard, under circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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
- Shoes plus socks

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR PERFORMANCE, AND/OR ILLEGAL RESIDUES.

Do not apply this product through any type of irrigation system.

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General Information

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Caparol 4L is a selective herbicide that may be applied either before or after weeds emerge for control of most annual broad-leaf weeds and grasses, including groundcherry, lambsquarters, annual morningglory, malva, mustard, black nightshade, pigweed (carelessweed), purslane, Florida pusley, ragweed, smartweed, teaweed (prickly sida), barnyardgrass (watergrass), crabgrass, foxtail, goosegrass, junglerice, Panicum spp., signalgrass (and other Brachiaria spp.), and wild oats. Caparol 4L also controls shallow-germinating seedlings of cocklebur, coffeeweed, and sandbur. Caparol 4L will also provide partial control of spurred anoda (cottonweed), rough blackfoot (ironweed, cluster flaveria), and prairie sunflower in NM and western TX. Caparol 4L does not control johnsongrass, bermudagrass, other established perennials, or sprangletop at selective rates.

When applied before weeds emerge, Caparol 4L enters weeds through their roots. Thus, its effectiveness depends on moisture to move it into the soil. Under very dry soil conditions after application, a shallow cultivation or rotary hoeing will generally result in better weed control.

When applied to emerged weeds, Caparol 4L provides foliar knock-down and/or residual control of later germinating weeds, depending on the rate applied.

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.

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

Application Procedures

Ground application (All uses): Use conventional ground sprayers equipped with nozzles that provide accurate and uniform application.

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/A for all preplant incorporated, preemergence, and postemergence applications (with or without surfactant) with ground equipment.

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

For preplant incorporated or preemergence application, use flat fan nozzle tips. For postemergence band application, use off-center nozzle tips. For postemergence broadcast application, use flat fan or off-center nozzle tips. Use floo nozzle tips only in AZ and CA for lay-by treatment in cotton at least 18 inches tall.

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

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

<u>band width in inches</u>		<u>broadcast rate</u>		<u>amount needed</u>
row spacing in inches	X	per acre	=	per acre of field

Aerial application (Cotton and pigeon peas only): Use aerial application only where broadcast applications are specified. Use a minimum of 5 gals. of spray mixture 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.

To assure that spray will be controllable within the target area when used according to label directions, make applications at a maximum height of 10 ft. above vegetation, using low drift nozzles at a maximum pressure of 40 psi, and restrict application

to periods when wind speed does not exceed 10 mph. To assure that spray will not adversely affect adjacent sensitive nontarget plants, apply Caparol 4L by aircraft at a minimum upwind distance of 400 ft. from sensitive plants.

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 1/4 full with clean water. (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) Pour product directly from container into tank. (6) Continue filling tank until 90% full. Increase agitation if necessary to maintain surface action. (7) Add tank mix herbicide(s).

Cleaning: Wash sprayer thoroughly with clean water immediately after use. Do not use the same sprayer without thoroughly cleaning on sensitive crops, as even small residues of Caparol 4L in the tank may cause injury to these crops.

#### Seedbed Preparation

To insure proper placement of Caparol 4L, seedbeds must be well prepared and as free as possible from trash and clods. A firm seedbed is best for obtaining effective weed control. Uniformity in height and width of seedbed is essential for proper postemergence applications of Caparol 4L. Beds should be low and flat. Take care to avoid planter marks. Wide planter packing wheels or rollers are recommended. Wheel furrows should be uniform in depth. Mount the sprayer so that it follows the same rows as the planter.

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#### Cotton

Caparol 4L may be applied preplant incorporated or preemergence and/or postemergence as recommended in the following tables. The postemergence applications may follow preplant incorporated or preemergence treatments of Caparol 4L.

Do not use on glandless cotton varieties or crop injury will occur.

Note: Do not feed treated forage to livestock, or graze treated areas, or illegal residues may result.

#### Preplant Incorporation (AZ, CA, and NM)

Apply Caparol 4L at the appropriate rate in Table 1 as a broadcast or band treatment. If broadcast, treat the flat soil surface prior to listing. If banded, apply over partially finished or finished beds. Incorporate up to 4 inches deep immediately after application with PTO-driven equipment, double disk, rolling cultivator, rolling cultivators in tandem, or bed conditioner.



Table 1: Preplant Incorporation

Region	Soil Texture	Broadcast Rate per Acre
AZ, CA and NM	sand, loamy sand	Do not use
	sandy loam (AZ & CA only)	2.4-3.2 pts.
	sandy loam, loams (NM only)	3.2 pts.
	silt loam, clay	4.8 pts.

Precautions: To avoid crop injury, 1) Do not use Caparol 4L in cut areas of newly leveled fields, in areas of excess salt, or in areas where flooding over the beds is likely to occur. 2) Do not plant cotton in tractor wheel depressions. 3) On mulch planted cotton, water back only after cotton seedlings are well established. 4) In NM, apply either preplant incorporated or preemergence (not both) - see Preemergence section. 5) In CA, do not incorporate with straight-tined bed mulchers/conditioners.

Preemergence

Apply at planting or shortly after planting at the appropriate rate in Table 2. Caparol 4L may be used on cotton planted flat, on beds, or in furrows. To avoid concentration of Caparol 4L in the seed furrow, do not make broadcast applications to cotton planted in furrows deeper than 2 inches. Band applications may be made to cotton planted in furrows deeper than 2 inches, but band width should not exceed the width of the bottom of the furrow. If banded, do not cover treated bands with soil while cultivating untreated row middles. To avoid crop injury, do not use on sand or loamy sand, on shallow soils with caliche subsoils, or in areas with caliche outcroppings.

Cotton may be replanted in soil previously treated with Caparol 4L. Do not apply a second preemergence application of Caparol or injury may occur.

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Table 2: Preemergence

Region	Soil Texture	Broadcast Rate per Acre
Mid-South & Southeast other than Mississippi River Delta in MS	sandy loam	3.2-4 pts.
	silt and clay loam	4.8 pts.
	Sharkey clay (Arkansas only)	5.6 pts.
Miss. River Delta in MS	sandy loam	4-4.8 pts.
	silt and clay loam	5.6 pts.
	Sharkey clay	Do not use
Blacklands of OK & TX, TX Gulf Coast, & TX Coastal Bend	loam	2.4 pts.
	clay	4.8 pts.
Rio Grande Valley of TX*	loam	3.2 pts.
	clay	4.8 pts.
High Plains, Rolling Plains and Edwards Plateau of TX, Southwest TX and NM**	sand, loamy sand	Do not use
	sandy loam	1.6 pts.
	loam, sandy clay loam	2.4 pts.
	other clay soils	3.2 pts.
AZ and CA	Do not use	

\*Rio Grande Valley of TX - Furrow irrigation cotton - If adequate rain does not fall soon after application, a shallow cultivation will insure good weed control.

\*\*NM - Apply either preplant incorporated or preemergence (not both) - See Preplant Incorporation section.

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Winter and Early Spring Weed Control in AL, AR, LA, MO, MS, and TN

For control of winter and early spring germinating annual weeds (including henbit, common chickweed, sibara and Palmer amaranth), apply 1.5-2 pints of Caparol 4L after bedding (e.g., stale seedbed) from November 1 until 30 days before planting cotton. Use the high rate for early applications and the low rate for applications nearer to cotton planting. Applications may be made before or after weeds emerge. For control of emerged weeds preferably less than 2 inches in height, add a suitable and approved crop oil concentrate or surfactant according to its label. In the event weeds exceed 2 inches in height at the time of treatment, apply Caparol 4L in tank mixture with a contact herbicide (e.g., Gramoxone® Extra or Roundup®). Refer to the label of the contact herbicide for rates of application, additives and for weed height restrictions at time of application.

After applying Caparol 4L, do not mechanically till the seedbed prior to the cotton planting process as this will encourage germination of weed seeds.

Follow with a preemergence herbicide program for cotton. In the event that a subsequent application of Caparol 4L is made, do not exceed the total rate of Caparol 4L that may be applied to a single cotton crop.

Winter Weed Control in TX

For control of winter weeds only, such as henbit (purpletop) and seedling dock on fall bedded cotton land in the TX Gulf Coast and Blacklands of TX, apply 1.2-1.6 pts. of Caparol 4L per acre in the fall or winter to land that will be planted to cotton the following spring. For best results, apply before weeds emerge. Caparol 4L will give effective control of emerged henbit if applied before it reaches 4-6 inches tall. For postemergence henbit control, add a suitable surfactant, such as X-77®, at 0.5% of spray volume or an emulsifiable oil at 1.0% of spray volume.

Winter Weed Control in CA

For control of winter weeds on fall bedded cotton land, apply Caparol 4L after bedding either preemergence or postemergence to weeds less than 2 inches tall. Winter weeds controlled include:

- |               |                    |
|---------------|--------------------|
| chickweed     | pineappleweed      |
| fiddleneck    | redmaids           |
| filarees      | shepherdspurse     |
| London rocket | sowthistle, annual |
| mustards      |                    |

On sandy loam soil, apply 3.2 pts. per acre; on medium or fine

soil, apply 4 pts. per acre. To avoid crop injury, do not use on sand or loamy sand. For postemergence weed control, add a suitable surfactant, such as X-77, at 0.5% of spray volume or an emulsifiable oil at 1.0% of spray volume. Rainfall or sprinkler irrigation is necessary to activate the preemergence activity of Caparol 4L.

After pre-irrigation and before planting in the spring, knock off the top 1/3 to 1/2 of the seedbed. Then make a preplant application of Caparol 4L over the surface of the seedbed using a power-tiller, rolling cultivator, or similar implement that will provide uniform incorporation. Refer to Table 1, for preplant incorporation rates of Caparol 4L in CA. To avoid crop injury, do not cultivate treated soil back toward the cotton until after cotton emergence and just before the first irrigation.

Precaution: To avoid crop injury, do not use Caparol 4L for winter weed control in areas of excess salt or calcareous soil.

Note: To avoid illegal residues, do not use more than 10.3 pts. of Caparol 4L on sandy loam soil or 11.9 pts. Caparol 4L on medium or fine soil per acre per year including winter weed control, preplant incorporation, chemical hoe, and lay-by applications.

Postemergence Directed

Be especially careful in applying Caparol 4L postemergence to prevent contact of the spray with cotton leaves, or injury may occur. Use precision application equipment so the spray is accurately directed to the base of the cotton plants and still thoroughly covers the soil and weeds beneath the cotton plants. Apply during calm periods to prevent drift. Use leaf lifters or shields if leaf contact cannot be avoided merely by directing the spray. Apply only when all plants have exceeded the minimum recommended height. Apply to level, well prepared surfaces such as relatively clod-free beds made with bed-shapers.

To avoid crop injury, do not apply to furrow-planted cotton until furrows are leveled (plowed in). Do not treat cotton under stress from drought, cultivator damage, or fertilizer application.

When applying to emerged weeds, add 2 qts. of surfactant per 100 gals. of spray mixture. Use a surfactant that is compatible with Caparol 4L when applied in cotton and is approved by EPA for use on food and feed crops. Examples include X-77, Tronic, and Triton.

Chemical Hoe (Emerged Weeds only): Apply Caparol 4L at the appropriate rate in Table 3, two or three times if necessary. In cotton 3-6 inches tall, be extremely careful to avoid spray contact with cotton leaves by applying Caparol 4L with a precision applicator equipped with fenders or shields such as Bell Row Shield, Dickey Fenders, or W&A Fenders. In cotton less than 10 inches tall, apply only if cotton is bed or flat-planted.

Table 3: Chemical Hoe

Height of Cotton and Area of Use	Height of Weeds	Broadcast Rate per Acre
3 to 6 inches (AR, LA, MO, MS, TN and TX)	less than 1 inch	1 pt.
6 or more inches (all regions)	less than 2 inches	1-1.3 pts.

Lay by (Emerged Weeds and Germinating Weeds): Apply Caparol 4L at the appropriate rate in Table 4, once per season when cotton is at least 12 inches tall (18 inches where flood nozzles are used in AZ and CA). Apply before weeds are 2 inches tall.

Table 4: Lay-by

Region	Soil Texture	Broadcast Rate per Acre
Mid-South and Southeast	sandy	2.4 pts.
	loam	2.8 pts.
	clay	3.2 pts.
Blacklands of OK and TX	loam	1.6 pts.
	clay	3.2 pts.
High Plains of NM and TX	sandy	1.6 pts.
	loam and clay	2.4 pts.
Southwest TX	loam	2.4 pts.
	clay	3.2 pts.
Rio Grande Valley of TX	Do not use	
AZ and CA (Do not use in the Coachella Valley)	sand and loamy sand	Do not use
	sandy loam	2.4-3.2 pts.
	loam	3.2 pts.

Rotational Crops

The following vegetable and cover crops may be planted in the fall when Caparol 4L was applied on cotton by no more than one of these methods that year; preplant incorporated, preemergence, or only one chemical hoe treatment. Where lay-by or multiple applications are made do not plant rotational crops until the following year as indicated below.

Vegetables

Cabbage, okra, onions, peas, red beets, sweet corn

Cover Crops (must be plowed down and not used for food or feed)  
oats, sorghum, winter barley, winter rye, winter wheat

Spring-seeded crops in AZ and CA and spring-seeded vegetables in the Rio Grande Valley of TX should not be planted until after April 1.

Caparol 4L Combinations for Cotton

Prowl® (AZ, CA, NM, and the upper and lower El Paso Valley of TX)

This preplant incorporated tank mixture controls all weeds listed on this label and on the Prowl cotton label. Apply prior to listing or over partially finished or finished beds and incorporate immediately. Refer to the Prowl label for specific mixing, spraying, and incorporation methods. Continuous agitation in the spray tank is required to keep the material in suspension.

Apply the tank mixture at the appropriate rates from Table 5.

Table 5: Tank Mixture with Prowl

Soil Texture	Broadcast Rate Per Acre	
	Prowl	Caparol 4L
sand, loamy sand	Do not use	
sandy loam	1-1.5 pts.	2.4-3.2 pts.
loam	1.5-2 pts.	3.2 pts.
silt loam, silt, sandy clay loam	1.5-2 pts.	3.2-4.8 pts.
clay loam, silty clay loam, clay	1.5-3 pts.	3.2-4.8 pts.

Use the high rate for each soil texture above if heavy weed populations are anticipated. Use the 3 pt. rate of Prowl for heavy clay soils.

Precautions: To avoid crop injury, 1) Do not use in cut areas of newly leveled fields, in areas of excess salt, or in areas where flooding over the bed is likely to occur. 2) Do not plant cotton in tractor wheel depressions. 3) Do not use this tank mixture when cotton is irrigated up. 4) On mulch planted cotton, water back only after cotton seedlings are well established.

**Note:** Do not feed treated forage to livestock, or graze treated areas, or illegal residues may result.

**Rotational Crops:** If treated crop is lost, cotton may be replanted. Do not rework the soil. Refer to the Prowl label and the Cotton section of this label for rotational crop restrictions.

**Treflan® EC Tank Mixture** (AZ, CA, NM and the upper and lower El Paso Valley of TX)

This combination controls weeds listed on this label and on the Treflan label. This combination also controls shallow-germinating seedlings of cocklebur and coffeeweed.

Follow procedures on the Treflan label for soil preparation and incorporation. Apply the tank mix combination to the flat soil before disking.

Pour Caparol 4L directly into spray tank one-half to three-fourths full of water, allow it to disperse with agitation, add Treflan EC, and then add the rest of the water. Under conditions of very soft water and low spray volume (5-10 gal./acre), compatibility of Caparol 4L + Treflan EC may be improved by adding the Treflan EC first, agitate, and then add the Caparol 4L. Continuous agitation in the spray tank is required to keep the material in suspension. Apply the tank mixture at the appropriate rates from Table 6.

Table 6: Tank Mixture with Treflan EC

Soil Texture	Broadcast Rate per Acre	
	Treflan EC	Caparol 4L
sand, loamy sand	Do not use	
sandy loam	1 pt.	2.4-3.2 pts.*
medium soils	1 1/2 pts.	4 pts.
fine soils	2 pts.	4 pts.
muck or peat	Do not use	

\*Use less than 3.2 pts. per acre only in AZ and CA.



Precautions: To avoid crop injury, 1) Do not use in cut areas of newly leveled fields, in areas of excess salt, or in areas where flooding over the bed is likely to occur. 2) Do not plant cotton in tractor wheel depressions. 3) On mulch planted cotton, water back only after cotton seedlings are well established.

Note: Do not feed treated forage to livestock, or graze treated areas, or illegal residues may result.

Rotational Crops: Cabbage, celery, okra, onions, and peas may be planted in the fall after a spring application of Treflan + Caparol. Winter barley, rye and wheat can be planted in the fall if they are plowed down and not used for food or feed. Refer to the Treflan EC label for other directions and precautions.

Treflan EC Split Application (AZ and CA)

Apply a preplant incorporated application of Treflan EC as directed on that label, except use the appropriate rate from Table 6. Do not apply Treflan EC before January 1. Follow at planting or just before planting with a preplant incorporated treatment of Caparol 4L as directed in the Cotton section of this label, except use the appropriate rate from Table 6.

DSMA or MSMA

For faster knockdown of the weeds controlled by Caparol 4L alone, apply 1-1.3 pts. of Caparol 4L plus 3 lbs. active ingredient of DSMA or 2 lbs. active ingredient of MSMA per acre, following the same directions, precautions, and limitations as given on this label for Caparol 4L applied alone postemergence directed (chemical hoe). If needed, make a second application 1-3 weeks after the first application. Do not apply after first bloom.

Several formulations of DSMA and MSMA are available under various trade names from several manufacturers. Observe the directions, limitations, and precautions on the label of the product used.

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Celery

Seedbeds (FL)

Broadcast 1.2-1.6 pts. in a minimum of 20 gals. of water per acre after celery has 2-5 true leaves. Application may be made over the celery. Apply only after seedbed covers have been removed from seedbeds for at least one week. Apply only once per year to seedbeds.

Direct-seeded Celery (CA only)

Apply Caparol 4L at rates given below in a minimum of 20 gals. of water per acre. Within the rate ranges given, use the lower

rates on coarse-textured soils and soils low in organic matter; use the higher rates on fine-textured soils and soils high in organic matter.

**Preemergence:** Broadcast 2.4-3.2 pts. per acre at planting or shortly after planting before celery emerges.

**Postemergence:** Broadcast 1.6-2 pts. per acre after celery has 2-5 true leaves. Application may be made over the celery. Apply before weeds are 2 inches tall.

To Avoid Injury to Direct-seeded Celery: (1) Make either one preemergence or one postemergence application (not both) per celery crop. (2) Do not use on sand or loamy sand. (3) Do not apply if celery is under water stress. (4) Do not apply post-emergence treatments of Caparol 4L with other pesticides. Apply only after foliar applications of other pesticides are dry. (5) Do not apply within two weeks after an application of a herbicidal oil, such as "carrot" oil.

Transplants

Apply one application at the appropriate rate from Table 7 in a minimum of 20 gals. of water per acre during the 2-6 week period after transplanting. Within the rate ranges given, use the lower rate on relatively coarse-textured soils and soils low in organic matter; use the higher rate on relatively fine-textured soils and soils high in organic matter. Application may be made over the celery. Apply before weeds are 2 inches tall.

Table 7: Transplanted Celery

State	Soil	Broadcast Rate per Acre
FL	sandy or muck	1.6-3.2 pts.
CA and TX	coarse-textured	2-3.2 pts.
	fine-textured	3.2-4 pts.
MI and OH	fine-textured or muck	2-4 pts.
WI	fine-textured	3.2-4 pts.

Rotational Crops

The following crops may be seeded 5 months after applying no more than 4 pts. Caparol 4L per acre on celery: cabbage, cel-

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ery, corn, onions, peas, and red beets.

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Pigeon Peas (Puerto Rico only)

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For preemergence control of annual weeds, such as horse purslane, jungle rice, wild spider flower, jimsonweed, spurge, pigweed and Florida pusley, apply 4 pts. of Caparol 4L per acre on loam soils, or 6 pts. per acre on clay soils. Apply at planting or immediately after planting before the crop or weeds emerge.

Precautions: To avoid crop injury, 1) Make only one application per year. 2) Do not use on sandy or loamy sand soils.

Note: Do not graze or feed forage or hay to livestock, or illegal residues may result.

Rotational Crops

The following crops may be seeded 5 months after applying no more than 4 pts. Caparol 4L per acre on pigeon peas: cabbage, celery, corn, onions, peas, and red beets.

Storage and Disposal

Do not contaminate water, food, or feed by storage or disposal. Pesticide wastes are toxic. Improper disposal of unused pesticide, spray mixture, or rinse water is a violation of federal law. If these wastes cannot be used according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance in proper disposal methods.

Triple rinse container (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill or by other procedures approved by state and local authorities.

For minor spills, leaks, etc., follow all precautions indicated on this label and clean up immediately. Take special care to avoid contamination of equipment and facilities during cleanup procedures and disposal of wastes. In the event of a major spill, fire or other emergency, call 1-800-888-8372 day or night.

**Precautionary Statements**

**Hazards to Humans and Domestic Animals**

**CAUTION**

Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid repeated skin contact, as this product may cause skin sensitization reactions in certain individuals. Avoid breathing vapor or spray mist.

**First Aid:** If in eyes, flush with plenty of water. If on skin, wash with plenty of soap and water. Get medical attention if eye or skin irritation persists.

**Personal Protective Equipment (PPE):**

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

**Applicators and other handlers must wear:**

- Long-sleeved shirt and long pants
- Shoes plus socks

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.

**Engineering Control Statements:**

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

**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

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from treated areas.

Caparol® trademark of Ciba-Geigy Corporation

Gramoxone® trademark of ICI Americas

Prowl® trademark of American Cyanamid for pendimethalin

Roundup® trademark of Monsanto Company

Treflan® trademark of DowElanco

X-77® trademark of Chevron Chemical Company

Ciba Plant Protection  
Ciba-Geigy Corporation  
Greensboro, North Carolina 27419

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CGA 17L6E 042 (no est. no.)  
CGA 17L7G 042 (100-LA-1)

22g23

Caparol® 4L

Herbicide

For selective weed control  
in cotton, celery, and pigeons peas

Active Ingredient:

Prometryn: 2,4-bis(isopropylamino)-  
6-(methylthio)-s-

triazine .....	44.4%
Inert Ingredients:	55.6%
Total:	100.0%

Caparol 4L contains 4 lbs. active  
ingredient per gallon.

Shake well before using.

See directions for use in attached booklet.

**AGRICULTURAL USE REQUIREMENTS**

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-620  
EPA Est. 100-LA-1 (only on CGA 17L7F)

2 1/2 Gallons  
U.S. Standard Measure

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

Harmful if absorbed through skin or inhaled. Causes moderate eye irritation. Avoid contact with eyes, skin, or clothing. Avoid repeated skin contact, as this product may cause skin sensitization reactions in certain individuals. Avoid breathing vapor or spray mist.

First Aid: If in eyes, flush with plenty of water. If on skin, wash with plenty of soap and water. Get medical attention if eye or skin irritation persists.

Environmental Hazards

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment wash waters. Do not apply when weather conditions favor drift from treated areas.

Do not apply this product through any type of irrigation system.

Caparol® trademark of Ciba-Geigy for prometryn

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Ciba-Geigy

November 3, 1981  
Revised February 18, 1983  
Revised June 4, 1984  
Revised April 2, 1985  
Revised March 12, 1986  
Revised December 12, 1987  
Revised January 16, 1992  
Revised July 9, 1993

[GANNONC.LABELC]CAP4LWPS - 7/9/93