



PH 25 100-495
10/92
FILE

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

MAR 23 1994

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

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

Subject: Label Amendment Submission of 10/27/93 in Response to PR Notice 93-7
EPA Reg. No. 100-495
CAPAROL 7 MSMA WITH SURFACTANT 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. 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:

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

20/12

Page 2

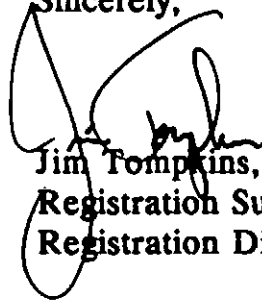
Submit the final printed labeling via the U.S. Postal Service to:

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

30/12

WPS

Caparol® + MSMA with Surfactant

Herbicide

For postemergence directed applications for weed control in cotton

SHAKE PRIOR TO USE

Use entire contents at one time

Caparol + MSMA with Surfactant contains 1 lb. prometryn and 4 lbs. MSMA per gal.

One Gallon
U.S. Standard Measure

Active Ingredients:

Prometryn: 2,4-bis(isopropylamino)-6-methylthio-s-triazine	8.4%
Monosodium acid methanearsonate*	33.6%
<u>Inert Ingredients:</u>	<u>58.0%</u>
Total:	100.0%

Total arsenic, all in water soluble form, expressed as elemental 15.5%

Caparol® + MSMA with Surfactant is the trademark of Ciba-Geigy Corporation for its combination of prometryn herbicide, monosodium acid methanearsonate, and surfactant.

EPA Reg. No. 100-495

Keep Out of Reach of Children.

Caution

See additional precautionary statements on back panel.

See directions for use on back panel.

Ciba-Geigy

ACCEPTED
with COMMENTS
in EPA Letter Dated

MAR 23 1994

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

100-495

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.

Conditions of Sale and Warranty

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.

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

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.

General Information

Postemergence directed applications of Caparol + MSMA with Surfactant in cotton will control most annual broadleaf and grassy weeds such as pigweed (carelessweed), teaweed (Sida spp.), annual morningglory, ragweed, groundcherry, lambsquarters, Florida pusley, purslane, malva, Panicum spp., cocklebur, velvetleaf, smartweed, carpetweed, coffeeweed, foxtail, barnyardgrass (watergrass), dallisgrass, crabgrass, goosegrass, sandbur, seedling johnsongrass, Brachiaria spp., and nutsedge.

When applied to emerged weeds as a directed spray, Caparol + MSMA with Surfactant provides foliar knockdown of existing weeds.

Spray Equipment Information

Accurate, uniform placement of Caparol + MSMA with Surfactant spray is essential for effective weed control and to avoid crop injury. Caparol + MSMA with Surfactant can be applied with low pressure spray equipment.

Agitation: Caparol + MSMA with Surfactant is a suspended formulation. It is very important to provide adequate agitation in the spray tank to avoid any possibility of settling. Mechanical or jet agitation is recommended. If jet agitation is used, a separate line leading directly from the pump (between the pump and shutoff valve) into the sprayer tank should be provided. This line should be equipped with a jet agitator with a fixed orifice (opening). Make sure this line reaches the bottom of the tank. If two tanks are used, both should be equipped for continuous agitation.

Pumps: Use a pump with capacity to maintain 35-40 psi at the nozzles. If hydraulic agitation is used, the pump should also provide sufficient agitation in the tank to keep the mixture in suspension.

Pressure Regulators: Sprayers should be equipped with a pressure regulator that will eliminate pulsation. The pressure regulator should be equipped with an accurate pressure gauge.

Tanks: It is very important that tanks be inspected and cleaned to make sure they are free of corrosion and other contaminants.

Nozzle Tips: For band application use off-center nozzle tips. For broadcast application use 80° fan-type nozzle tips or off-center nozzle tips.

Strainers and Screens: All strainers and screens should be 50-mesh or coarser. An in-line strainer should be placed on the intake side of the pump and screens should be placed just behind each nozzle tip. The use of pressure regulated check valves in

nozzle strainers is recommended to prevent nozzles from dripping.

Booms and Hoses: It is important that booms and hoses be of sufficient size to provide uniform delivery of spray volume to nozzles. Experience has shown that spray booms and hoses with a minimum diameter of 1/2 inch are adequate.

Calibration: Several methods can be used to calibrate the sprayer. Whichever method is used, the calibration procedure should be done with extreme care. Calibrate under actual field conditions. Care should then be taken to maintain constant speed and pressure during the spraying operation. It is suggested that sprayer calibration be checked periodically.

Mixing: Shake the Caparol + MSMA with Surfactant container well before pouring. Add about 1/2 the total volume of water to the tank. Start the pump to provide agitation and pour in the desired amount of herbicide concentrate. Rinse empty herbicide containers and pour into spray tank. Add water to make the total desired volume.

Cleaning Sprayers: Sprayers used to apply Caparol + MSMA with Surfactant should be thoroughly washed out immediately after use to prevent drying of the herbicide in the tank. Remove each nozzle tip and screen and clean thoroughly. Flush tank, pump, hose, and boom with several changes of water. Sprayers used to apply Caparol + MSMA with Surfactant should not be used to apply pesticides on sensitive crops such as tobacco, sugar beets, or vegetables as even small residues of Caparol + MSMA with Surfactant in the tank may cause injury to these crops.

Application

Special care must be taken in making band or broadcast post-emergence applications of Caparol + MSMA with Surfactant to prevent contact of the spray with cotton leaves or injury may occur. Recommended practices to utilize in making such applications include (1) using precision application equipment so that the spray may be accurately directed to the base of the cotton plants and still thoroughly cover the soil and weeds beneath the cotton plants, (2) making applications during calm periods to prevent wind drift, (3) using branch lifters or shields if leaf contact cannot be avoided merely by directing the spray, (4) applying only when all plants have exceeded the minimum recommended height, and (5) applying to level well-prepared surfaces such as beds made with bedshapers that are relatively free of clods.

Applications to cotton less than ten inches tall should be made only when the cotton is bed or flat-planted. Application to furrow-planted cotton should not be made until the furrows are leveled (plowed in).

Cotton under stress due to unfavorable environmental conditions such as drought or cultivator damage or fertilizer applications should not be treated.

Cotton Three to Six Inches Tall [Texas and the Mid-South (includes Arkansas, Louisiana, Mississippi, Missouri, and Tennessee) only]: Extreme care should be taken in making applications to cotton 3-6 inches tall so that the spray does not contact cotton leaves. Applications must be made with a precision applicator equipped with fenders or shields such as Bell Row Shield, Dickey Fenders, or W & A Fenders.

Cotton Six or More Inches Tall (All Regions): Applications of Caparol + MSMA with Surfactant may be made any time after cotton is six inches tall, but before it reaches the first bloom stage.

Rate of Application (All Regions and Recommended Sizes of Cotton): Caparol + MSMA with Surfactant should be applied at the rate of 2 qts. per acre broadcast in 10-40 gals. of water. For calculation of band application rate, use the following formula:

$$\frac{\text{band width in inches}}{\text{row width in inches}} \times 2 \text{ qts. per acre} = \frac{\text{qts. needed}}{\text{per acre}}$$

Applications should be made to weeds not more than 2 inches in height. A second application may be required to control weeds such as nutsedge, watergrass, and johnsongrass. Apply the second application approximately 1-3 weeks after the first application.

Rotational Crops

The cover crops and vegetable crops listed below may be planted in rotation in the fall when Caparol + MSMA with Surfactant was used on cotton as a single postemergence treatment at the rate of 2 qts. per acre (maximum one application per year).

If postemergence treatments other than those recommended herein or if Caparol 80W preemergence treatments are used, fall-seeded crops should not be planted. Also, spring-seeded crops in California and Arizona and spring-seeded vegetables in the Rio Grande Valley of Texas should not be planted until after April 1st.

Vegetables: cabbage, onions, red beets, okra, peas, sweet corn.

Cover Crops: oats, winter barley, sorghum, winter rye, winter wheat. These crops may be planted provided they are plowed down and not used for food or feed.

9/12

Precaution: Do not apply more than 1 gal. of
Caparol + MSMA with Surfactant per acre per year.

Note: Do not feed treated foliage to livestock or allow grazing on treated areas.

Storage and Disposal

Do not store or dispose of pesticide, spray mixture, or rinsate in a manner that is likely to result in contamination of water, food, feed, other pesticides, seed or fertilizer, or is otherwise likely to result in accidental ingestion by humans or domestic animals.

Improper disposal of unused pesticide, spray mixture, or rinsate is violation of federal law. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

Triple rinse container (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.

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 (919) 292-7100 day or night.

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

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

First Aid: If swallowed, call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person. If on skin, wash with plenty of soap and water. If in eyes, flush with plenty of water. Get medical attention if skin or eye irritation persists. If inhaled, move to fresh air.

Personal Protective Equipment:

Applicators and other handlers (other than mixers and loaders) must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

Mixers and Loaders must wear:

- Long-sleeved shirt and long pants
- Waterproof gloves
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when mixing or loading
- For exposures in enclosed areas, a respirator with either an organic vapor-removing cartridge with a prefilter approved for pesticides (MSHA/NIOSH approval number prefix TC-23C), or a canister approved for pesticides (MSHA/NIOSH approval number prefix TC-14G)
- For exposures outdoors, dust/mist filtering respirator (MSHA/NIOSH approval number prefix TC-21C)

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 or enclosed cabs 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, 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 wash waters. Do not apply when weather conditions favor drift to areas treated.

BEST AVAILABLE COPY

12/12

Caparol® trademark of Ciba-Geigy for prometryn

© 1993 Ciba-Geigy Corporation

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

CGA 24L1H (WPS)

Revised December 20, 1983
 December 18, 1987
 March 2, 1988
 October 25, 1993
 (WPS)

[GANNONC.LABELC]CAPMSMWP - 10/25/93