



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

FEB 10 1991

PM 14 100-669
FILE
10/15

THHERESA KAMICKER
CIBA-GEIGY CORP.
P.O. BOX 18300
GREENSBORO, N.C. 27419

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

Subject: Label Amendment Submission of 9/17/93 In Response to PR Notice 93-7
EPA Reg. No. 100-669
CURACRON 8E INSECTICIDE-MITICIDE

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/Canada Ink on paper that
contains at least 50% recycled fiber

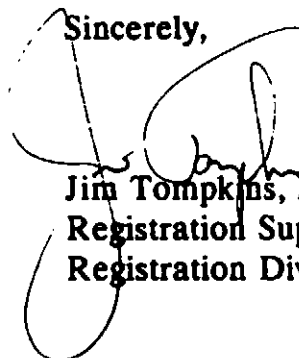
Submit the final printed labeling via the U.S. Postal Service to:

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

RESTRICTED USE PESTICIDE
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

Curacron® 8E

Insecticide - Miticide

For insect and mite control in cotton

Active Ingredient:

Profenofos: O-(4-bromo-2-chlorophenyl) O-ethyl S-	
propyl phosphorothioate	73.0%
Inert Ingredients ¹ :	27.0%
Total:	100.0%

¹Contains petroleum distillates

2 1/2 Gallons
U. S Standard Measure

Curacron 8E contains 8 lbs. active ingredient per gallon.

KEEP OUT OF REACH OF CHILDREN.

ACCEPTED
with COMMENTS
in EPA Letter Dated
10/10/1994
Under the Federal Insecticide,
Fungicide, and Rodenticide Act
as amended, for the pesticide
registered under EPA Reg. No.
100-669

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

See additional precautionary statements and directions for use inside booklet.

Curacron® trademark of Ciba-Geigy for profenofos

EPA Reg. No. 100-669

EPA Est. 100-AL-1

CGA 55L7F 053

[GANNONC.LABELC]CUR8EWPS - 8/23/93

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.

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.

UPTN

General Information

Curacron 8E is an emulsifiable insecticide-miticide which is effective for control of cotton bollworm, tobacco budworm, certain other insects, and mites on cotton.

Best results can be expected from fields under Pest Management/Scouting programs.

When using Curacron 8E as a larvicide, best results will be obtained when application is timed to control first to third instar larvae.

Fields treated with Curacron 8E may be rotated to other crops.

Curacron is an organophosphate insecticide which has a specific mode of action and could be subject to development of resistant strains of insects. Development of resistance cannot be predicted. Therefore, Ciba-Geigy cannot assume liability for crop damage resulting from resistant strains of insects. If the treatment is ineffective due to the presence of resistant strains, neither Curacron nor any other insecticide with similar action will effectively control those pests. Consideration should then be given to the prompt use of other types of suitable insecticides. Consult with your State Agricultural Experiment Station or Extension Service Specialist for guidance and information on resistance management strategies in your area.

Mixing Instructions

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Agitate thoroughly before and during application. Good bypass agitation is sufficient to keep Curacron 8E in emulsion. Do not let spray mixture stand overnight in the spray tank. Rinse spray tank at the end of the day.

Curacron 8E Alone: Add 2/3 of the required amount of water to the spray tank with the agitator running, then add the desired amount of Curacron 8E. Continue agitation while adding the remainder of the water.

Curacron 8E + Tank Mixtures: Add 2/3 of the required amount of water to the spray tank. With the agitator running if possible, add the desired amount of the other products recommended on this label. Then add the desired amount of Curacron 8E. Continue agitation while adding the remainder of water.

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

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), notification to workers, 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 48 hours. Each 48-hour REI is increased to 72 hours in outdoor areas where average rainfall is less than 25 inches per year.

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 over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Chemical-resistant footwear plus socks
- Protective eyewear

Notify workers of the application by warning them orally and by posting warning signs at entrances to treated areas.

FAILURE TO FOLLOW ALL DIRECTIONS AND PRECAUTIONS ON THIS LABEL
MAY RESULT IN CROP INJURY, POOR CONTROL, AND/OR ILLEGAL
RESIDUES.

Cotton

Curacron 8E Alone

Apply Curacron 8E at the specified rates below in a minimum of 5 gals. of water per acre with ground equipment or in a minimum of 1 gal. of water per acre by air. For better coverage of late season "rank" cotton, increase gallonage. To avoid spray drift, do not apply under windy conditions. Avoid spray overlap because crop injury may result.

If the need to control boll weevil becomes apparent while using Curacron 8E, Guthion® or methyl parathion may be tank mixed with Curacron 8E. Refer to the Guthion or methyl parathion labels for directions, limitations, and precautions.

Aphids (All cotton growing states): Apply 1/2 pt. of Curacron 8E per acre at 5-7 day intervals as needed starting when economic thresholds are reached. Economic thresholds will vary by locality. Consult your pest control advisor or cotton consultant to determine economic thresholds in your area.

Plant bugs/lygus bugs* (All cotton growing states): Apply 1/4-1/2 pt. of Curacron 8E per acre at 5-7 day intervals as needed starting when economic thresholds are reached. Economic thresholds will vary by locality. Consult your pest control advisor or cotton consultant to determine economic thresholds in your area.

*In Arizona and California, Curacron 8E offers suppression of lygus bugs.

Cotton bollworm, tobacco budworm (All cotton growing states except Arizona and California):

Contact Ovicide Activity: For contact ovicidal activity, apply 1/8-1/4 pt. of Curacron 8E per acre when egg lay exceeds thresholds. Continue at 5-7 day intervals as needed. If larvae survive, use higher rates listed below.

Larvae Control Only: To control larvae only, apply 1/2-3/4 pt. of Curacron 8E for light to moderate infestations. Apply 3/4-1 pt. Curacron 8E for moderate to heavy infestations. Apply at 5-7 day intervals as needed beginning when infestations first appear.

Cotton bollworm, tobacco budworm (Arizona and California):
Apply Curacron 8E at 5-7 day intervals as needed beginning when infestations first appear. Use 1/2-3/4 pt. per acre for light to moderate infestations and 3/4-1 pt. per acre for moderate to heavy infestations.

Cotton leafperforator, beet armyworm (All cotton growing states): Apply Curacron 8E at 5-7 day intervals as needed starting when larvae first appear. Use 1/2-3/4 pt. per acre for light to moderate infestations and 3/4-1 pt. per acre for moderate to heavy infestations.

Fall armyworm (All cotton growing states): Apply 3/4-1 pt. of Curacron 8E per acre at 5-7 day intervals as needed starting when larvae first appear. For best results, application should be made to young larvae still feeding on leaf surfaces and before migration to blooms and bolls has occurred.

Mites (All cotton growing states): Apply 1/2-1 pt. of Curacron 8E per acre at 5-7 day intervals as needed starting when mites first appear.

Whitefly suppression (All cotton growing states): To aid in the reduction of whitefly populations, apply 3/4-1 pt. of Curacron 8E at 5-7 day intervals as needed starting when whiteflies first appear.

Important: To avoid illegal residues: (1) Do not apply more than 3 qts. of Curacron 8E per acre per season. (2) Do not apply Curacron 8E within 14 days of harvest. (3) Do not allow livestock to graze treated cotton. (4) Do not feed gin trash or foliage from treated cotton plants to livestock.

Curacron 8E + Tank Mixtures (All cotton growing states)

To broaden the spectrum of insect control and make a more useful spray application, if multiple pests occur on cotton, it may be advantageous to tank mix Curacron 8E with other EPA-registered insecticides.

Curacron 8E has been found to be compatible in tank mixtures with the products listed below. When using Curacron 8E in tank mixtures, observe all limitations, precautions, and rate recommendations which appear on the labels for these products: Ambush®, Ammo®, Baythroid® 2, Capture® 2EC, Comite®, Cymbush®, Dipel® 2X, Guthion®, Karate®, Lannate® L, Larvin® 3.2, methomyl, methyl parathion, Orthene® 75S, Pay-Off®, Pounce®, Pydrin®, and Thiodan® 3EC. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

Note: Applications to cotton may cause spotting or reddening of leaves.

Curacron 8E + Oil (All cotton growing states)

Apply Curacron 8E following use directions above, selecting rates and timings according to pest problem.

Curacron 8E may be diluted with once refined vegetable oil for ULV application. Make application using 1-2 qts. of finished spray per acre.

Curacron 8E may be applied in water with the addition of 1-2

pts. of emulsified vegetable oil as an additive. Make application using a minimum of one gallon total mix per acre.

Important: When applying Curacron 8E in oil: (1) Make no more than 3 applications of Curacron 8E in oil per season. (2) Do not apply within 30 days of harvest.

Storage and Disposal

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

Pesticide disposal: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture, or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use 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.

Container disposal: Triple rinse (or equivalent). Then puncture container and dispose of in a sanitary landfill, or incinerate. The container may be disposed of by open burning if allowed by state and local authorities. Stay out of smoke from burning container.

Emergency Response

In the event of a major spill, fire, or other emergency, call 1-800-888-8372.

Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING/AVISO

May be fatal if absorbed through skin. Causes eye irritation. Do not get in eyes, on skin, or on clothing. Avoid breathing vapors or spray mist. Harmful if swallowed or inhaled.

Statement of Practical Treatment

This product is an organophosphate.

If swallowed: Call a physician or poison control center. May present aspiration hazard. DO NOT induce vomiting. Drink large quantities of water. Get medical attention immediately.

If on skin: Wash with plenty of soap and water. ~~Remove contaminated clothing.~~ Get medical attention.

If in eyes: Hold eyelids ^{delote} open and flush with plenty of water. Call a physician if irritation persists.

If inhaled: Remove victim to fresh air.

Note to Physician: If symptoms of cholinergic poisoning occur, atropine plus 2-PAM may be helpful. If swallowed, lavage stomach, taking care to avoid aspiration of stomach contents into the lungs.

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 F on an EPA chemical resistance category selection chart.

Applicators and other handlers must wear:

- Coveralls over short-sleeved shirt and short pants
- Chemical-resistant gloves, such as barrier laminate or butyl rubber or nitrile rubber or viton
- Chemical-resistant footwear plus socks
- Protective eyewear
- Chemical-resistant apron when cleaning equipment, mixing, or loading

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. 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

Due to the hazard to endangered fish, the application of this product is prohibited in Reeves County, Texas and within one mile of the Dexter National Fish Hatchery in New Mexico. This pesticide is toxic to fish and wildlife. Use with care when applying to areas frequented by wildlife or adjacent to any body of water. 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. Do not apply with aircraft within 300 feet upwind of impounded water. Do not apply when weather conditions favor drift from treated areas. Do not apply with aircraft when wind speed is greater than 10 mph. Apply this pesticide only as specified on this label. Do not contaminate water by cleaning of equipment or disposal of wastes.

This product is highly toxic to bees exposed to direct treatment or residues on crops or weeds. Do not apply this product or allow it to drift to crops or weeds on which bees are foraging. Additional information may be obtained from your Cooperative Agricultural Extension Service.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

Ambush®, Cymbush®, and Karate® trademarks of ICI Americas, Inc.

Ammo®, Capture®, Pounce®, and Thiodan® trademarks of FMC Corporation

Baythroid® trademark of Mobay Corporation

Comite® trademark of Uniroyal Chemical Company

Dipel® trademark of Abbott Laboratory

Guthion® trademark of the Parent Company of Farbenfabriken Bayer GmbH, Leverkusen

Lannate® trademark of E. I. duPont deNemours and Company

Larvin® trademark of Rhone-Poulenc Ag Company

Orthene® trademark of Chevron Chemical Company

Pay-Off® trademark of American Cyanamid

Pydrin® trademark of Shell Chemical Company

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

CGA 55L7F 053 Product ID: 55910

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RESTRICTED USE PESTICIDE

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

Curacron® 8E

Insecticide - Miticide

For insect and mite control in cotton

Active Ingredient:

Profenofos: <u>O</u> -(4-bromo-2-chlorophenyl) <u>O</u> -ethyl <u>S</u> - propyl phosphorothioate	73.0%
Inert Ingredients ¹ :	27.0%
Total:	100.0%

¹Contains petroleum distillates

2 1/2 Gallons
U. S. Standard Measure

EPA Reg. No. 100-669
EPA Est. No. 100-AL-1

Curacron 8E contains 8 lbs. active
ingredient per gallon.

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.

KEEP OUT OF REACH OF CHILDREN.

WARNING/AVISO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle. (If you do not understand the label, find someone to explain it to you in detail.)

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Physical or Chemical Hazards

Do not use or store near heat or open flame.

Chemigation

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

Curacron® trademark of Ciba-Geigy Corporation for profenofos
U.S. Patent No. 3,992,533

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

CGA 55L7F 053 - Product ID: 55910

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