



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

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MAY 20 1993

Ms. N. Beth Carroll  
Regulatory Manager  
Ciba-Geigy Corporation  
Agricultural Division  
P.O. Box 18300  
Greensboro, NC 27419-8300

Dear Ms. Carroll:

Subject: Curacron 8E  
EPA Registration No. 100-669  
Labeling Submitted October 7, 1992

The amendment referred to above, submitted in connection with registration under FIFRA, is acceptable, provided that you:

Submit one copy of your final printed labeling incorporating the following correction before you release the product for shipment.

Revise the proposed aquatic area buffer zone statement to be consistent with the current statement.

The statement appearing in your directions for use with vegetable oil prohibiting application of the product within 25 feet by ground or within 75 feet by air to aquatic areas appears to conflict with the current label statement providing for a 300 foot buffer zone. The information in our files for this product indicates that the available data are supportive of a 300 foot buffer zone.

If this condition is not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of this condition.

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

Note that this acceptance of your label does not relieve you of your obligation to comply with the Worker Protection Standard (WPS). If any of your products are covered by the WPS, you are required to submit, and receive the Agency's approval by April 21, 1994, of a revised label reflecting the required label statements of 40 CFR 156, published in the Federal Register on August 21, 1992 (57 FR 38102). Further guidance will be issued.

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According to 40 CFR 156, subpart K, specifically section 156.200 (c)(3): "No product to which this subpart applies shall be distributed or sold without amended labeling by any registrant after April 21, 1994."

The attached information sheet displays the uses which are within the scope of the WPS labeling requirements. For advice or instruction regarding your compliance with PR Notice 93-7, you may contact the special WPS Label Information Line at 1-800-777-2185.

Sincerely yours,



Robert A. Forrest  
Product Manager (14 )  
Insecticide-Rodenticide Branch  
Registration Division (H7504C)

DRAFT LABEL

**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 <sup>1</sup> :	27.0%
Total:	100.0%

<sup>1</sup>Contains 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.

**WARNING**

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

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 55L7F XXX  
[GANNONC.LABELC]CURACRON8E\_ORR - 9/26/92

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

**MAY 20 1993**

Under the Federal Insecticide,  
Fungicide, and Rodenticide Act  
as amended, for the pesticide  
registered under EPA Reg. No.  
100-669

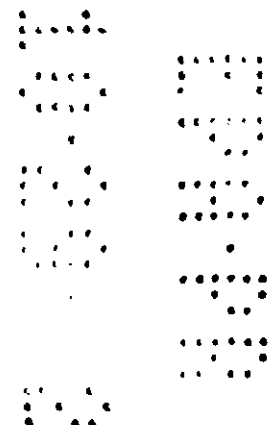
DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**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.



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.

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**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.

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 gallons of water per acre with ground equipment or in a minimum of 1 gallon 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, Guthion® or methyl parathion may be tank mixed with Curacron. 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 pint 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.

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**Larvae Control Only:** To control larvae only, apply 1/2 to 3/4 pint of Curacron 8E for light to moderate infestations. Apply 3/4 to 1 pint 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 to 3/4 pt. per acre for light to moderate infestations and 3/4 to 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 to 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 to 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® SEC. 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 quarts of finished spray per acre.

Curacron 8E may be applied in water with the addition of 1-2 pints 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) Do not apply by ground within 25 feet or by air within 75 feet, of lakes, reservoirs, rivers, permanent streams, marshes or natural ponds, estuaries or commercial farm fish ponds. (2) Make no more than three applications of Curacron 8E in oil per season. (3) Do not apply within 30 days of harvest.

**Storage and Disposal**

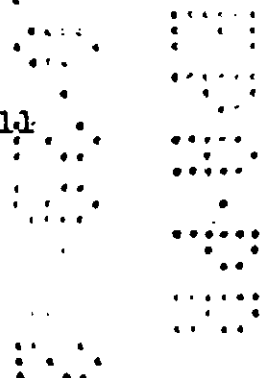
Do not contaminate water, food, or feed by storage or disposal.

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.



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Precautionary Statements

Hazards to Humans and Domestic Animals

WARNING

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. Wear protective clothing, goggles, face shield or safety glasses and rubber gloves when handling. Harmful if swallowed or inhaled. Wash thoroughly with soap and water before eating, drinking or using tobacco. Remove contaminated clothing and wash before reuse.

Statement of Practical Treatment

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 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.

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...

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body of water. 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 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

Curacron® trademark of CIBA-GEIGY Corporation  
U.S. Patent No. 3,992,533

Dipel® trademark of Abbott Laboratory

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

Lannate® trademark of E. I. DuPont DeNemours & Co.

Larvin® trademark of Rhone-Poulenc & Company

Pay-Off® trademark of American Cyanamid

Pydrin® trademark of Shell Chemical Company

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Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

CGA 55L7F XXX Product ID: 55910  
[GANNONC.LABELC]CURACRON8E\_ORR - 9/26/92

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Insecticide - Miticide

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Total:	100.0%

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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.

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U.S. Patent No. 3,992,533

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CIBA-GEIGY Corporation  
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