

MAY 7 1992

Thomas J. Parshley  
Regulatory Manager  
CIBA-GEIGY  
P.O. Box 18300  
Greensboro, North Carolina 27419-8300

Dear Mr. Parshley:

Subject: Prime +  
EPA Registration No. 100-640 ✓  
Amended Labeling  
Application Dated 1/27/92

The labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, is acceptable subject to the comments listed below. One copy of the finished labeling must be submitted prior to releasing the product for shipment.

In the added directions relating to use after the use of maleic hydrazide, under item 2 of "Notes", correct the second sentence to read "or longer on all...". Refer to PR Notice 91-7. The product name appears to be misleading according to this Notice, and appropriate changes must be made by 1/1/93.

Sincerely Yours,

*Cynthia Giles-Parker*  
Cynthia Giles-Parker  
Product Manager (22)  
Fungicide-Herbicide Branch  
Registration Division (H7505C)

Enclosure

CONCURRENCES

SYMBOL	H7505-C						
SURNAME	Cheung						
DATE	5/4/92						

(Front Cover)

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

MAY 7 1992

Prime +®

A Plant Growth Regulator for  
Control of Tobacco Suckers

One Gallon  
U. S. Standard Measure

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

100-641

Active Ingredients:

2-chloro-N-[2,6-dinitro-4-  
(trifluoromethyl)phenyl]-N-ethyl-

6-fluorobenzenemethanamine ..... 15%

Inert Ingredients: ..... 85%

Total: ..... 100%

Prime + contains 1.2 lbs. active ingredient  
per gallon.

EPA Reg. No. 100-640  
EPA Est. 100-LA-1  
Control No.

Keep Out of Reach of Children.

DANGER

PELIGRO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés,  
no use este producto hasta que la etiqueta  
haya sido explicado ampliamente.

See additional precautionary statements inside  
booklet.

Prime +® trademark of CIBA-GEIGY

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U. S. Patent No. 4,169,721

Agricultural Division  
CIBA-GEIGY Corporation  
Post Office Box 18300  
Greensboro, NC 27419

CGA 73L9 (DRAFT)  
CGA 73L11 (DRAFT) (w/o est. no.)

CIBA-GEIGY

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.

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### DIRECTIONS FOR USE

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

FAILURE TO FOLLOW THE DIRECTIONS FOR USE AND PRECAUTIONS ON THIS LABEL MAY RESULT IN POOR SUCKER CONTROL AND/OR CROP INJURY.

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

Do not apply this product in such a manner as to directly or through drift expose workers or other persons except those knowingly involved in the application. The area being treated must be vacated by unprotected persons.

### Re-entry Statement

Do not enter treated areas without protective clothing until sprays have dried.

Because certain states may require more restrictive reentry intervals for various crops treated with this product, consult your State Department of Agriculture for further information.

Written or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. Oral warnings must inform workers of areas or fields that may not be entered without specific protective clothing until sprays have dried, and appropriate actions to take in case of accidental exposure, as described under Precautionary Statements on this label. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written warnings must include the following information: "DANGER. Area treated with Prime + on (date of application). Do not enter without appropriate protective clothing until sprays have dried. In case of accidental eye exposure, flush eyes with plenty of water. Get medical attention. In case of accidental skin contact, wash skin with soap and water. Call physician if irritation persists. Remove and wash contaminated clothing before reuse."

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### General Information

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Prime + is a plant growth regulator for the control of sucker growth on flue-cured, burley, dark, Maryland, and cigar tobacco.

One application of Prime + will provide full season control of excessive sucker development in tobacco. Read this label carefully and observe all directions and precautions.

### Mixing Instructions

Mix 1 gal. of Prime + in 49 gals. of water or 2.5 fl. oz. Prime + per one gallon of water. Provide sufficient agitation during mixing and application to maintain a uniform mixture.

**Note:** Do not mix Prime + with insecticides or fungicides.

### Application Instructions

#### Time of Application

Apply Prime + when most tobacco plants are in the elongated button to early flower stage, either before or after topping. If Prime + is applied after topping, apply within 24 hours of topping. During topping, remove all suckers one inch or longer from all plants. (See notes listed below.)

#### Precision Hand Application

Mix 1 gal. of Prime + in 49 gals. of water and apply as a coarse spray or drench to the top of the tobacco stalk using a hand-held drop line, or mix 2.5 fl. oz. of Prime + per gallon of water when using the jug method or backpack sprayer. Apply only once per plant per season. Apply the spray mixture at a rate sufficient to run down the stalk contacting each leaf axil and just reach the ground line. Excessive spray volume may result in carryover injury to rotational crops. Spray volume per plant will generally be 1/3-2/3 fl. oz. depending on plant height. Do not exceed 30 gals. spray volume per acre when using hand application methods. (See notes listed below.)

#### Application with Powered Spray Equipment (3 nozzles per row)

Mix 1 gal. of Prime + in 49 gals. of water and apply at a rate of 30 to 50 gals. spray volume per acre. Use the high spray volume in tall types of tobacco, such as flue-cured, burley, Maryland, and cigar. Use the low spray volume only in short types of tobacco, such as dark. Apply only once per season. Avoid application to plants treated by precision hand application method. Spray volume should be sufficient to run down the stalk contacting each leaf axil and just reach the ground line. Excessive spray volume beyond the point of runoff to the soil may result in carryover injury to rotational crops. (See notes listed below.)

Apply Prime + as a coarse spray directed downward to the top of the tobacco stalk. This is best accomplished with three full cone nozzles per row; one nozzle directed downward over the center of the row and one 7-9 inches to each side of the center, directed at the top of the stalk. Maintain nozzles at a height

of 12-16 inches above the top of the stalk during application. Maintain boom pressure at 20-25 psi, not exceeding 30 psi.

Sequential Applications with Maleic Hydrazide (MH)

(Prior to Use of Maleic Hydrazide)

Mix 2 qts. of Prime + in 49.5 gals. of water and apply either by Precision Hand Application or Application with Powered Spray Equipment as described in those sections of this label. Timing of Prime + should be during the elongated button to early flower stage of tobacco.

Approximately one week after the Prime + Application, apply maleic hydrazide according to the directions, precautions, and restrictions on that label.

(After Use of Maleic Hydrazide)

For extended control of tobacco suckers, particularly during late tobacco harvests in FL, GA, NC, SC and VA.

First, apply the regular schedule of contacts. Follow with the labeled rate of maleic hydrazide in accordance with its label. Follow with 2 quarts of Prime + in sufficient water to total 50 gallons to treat one acre 3-4 weeks after applying maleic hydrazide, depending on the development of suckers. To increase the effectiveness of Prime +, add 0.25% X-77 (1 pt./50 gallons) to the spray solution.

Apply Prime + as a coarse spray using powered spray equipment (3 nozzles per row) at least 7 days before the next leaf harvest. The spray volume should be sufficient to run down the stalk contacting each leaf axil where suckers are present. Refer to the Application with Powered Spray Equipment section for specific instructions.

Notes: 1) Apply Prime + only once per tobacco season.  
2) Prime + will not control large suckers. All suckers one inch or longer or all tobacco plants must be removed before application of Prime +. 3) Follow all precautions, notes and other instructions on this label.

Tank Mix with Maleic Hydrazide (MH)

Mix 2 qts. of Prime + with labeled rate of maleic hydrazide in sufficient water to total 50 gallons and apply at the recommended time for application of maleic hydrazide. Apply the mixture as a coarse spray at a volume of 50 gallons per acre with a boom pressure maintained at 20-25 psi by Powered Spray Equipment as described in that section of this label. For best results, follow precautions and restrictions on the Prime + and maleic hydrazide labels.

Application sequence: 1) Apply contact material according to its label. 2) Apply the tank mixture of Prime + and maleic hydrazide at or near the time suggested for application of maleic hydrazide on its label. 3) Make only one application of the tank mixture of Prime + plus maleic hydrazide per tobacco crop.

Notes:

1. Timing is important; applications should be made at timing described above so that number and size of suckers will be small. Applications made before the elongated button stage of growth may result in chemical topping or distortion of leaves that were too immature at time of application. Spraying too late may result in poor sucker control.
2. Prime + will not control large suckers. All suckers one inch or longer on all plants must be removed before application of Prime +. Suckers that escape treatment should be removed by hand about 10-14 days after application.
3. Where a contact (fatty alcohol) is commonly used to control early suckers and provide a more uniform crop, the normal sequence would be: (a) apply contact material according to its label, and (b) about 5 days after application of contact material, apply Prime +. Timing of Prime + application should be during the elongated button to early flower stage.
4. Where a contact (fatty alcohol) is not used and a wide range of flowering exists, early flowering plants should be topped and suckers removed by hand. Then, when most plants are in the elongated button to early flower stage, remove all suckers one inch or longer, and apply Prime +. If Prime + is applied using precision hand application, early flowering plants can be topped and treated selectively; later flowering plants can be topped and treated as they reach the proper treatment stage; and a contact may not be needed.
5. For proper sucker control, Prime + must contact the small suckers on the axil where the leaf and stalk connect. Prime + will not control suckers on plants that are leaning at time of application. Applications with powered spray equipment during windy periods are not recommended. High wind will disrupt the spray pattern of nozzles on boom sprayers and turn leaves causing improper contact and flow of the spray solution, resulting in poor sucker control. Application to wet plants, or drought stressed plants may result in poor sucker control.

6. Carefully follow the use rates and spray volume recommended, and spray field uniformly. Volume should be sufficient to run down the stalk, contact each leaf axil, and just reach the ground line.
7. Rain occurring within 2 hours after spraying may reduce effectiveness.

Precautions: 1) To avoid illegal residues and possible injury to crops planted in the fall or following spring, do not apply excessive spray volume to the point of runoff onto the soil. Prime + residues in the soil may interact with dinitroaniline herbicides such as Balan®, Basalin®, Paarlant®, Prowl®, or Treflan® to increase early season crop stunting. Thorough disking and deep tillage in the fall are recommended where excessive amounts of Prime + may have reached the soil. 2) When tobacco is in a state of very rapid, succulent growth due to high nitrogen and rainfall, Prime + may cause injury. Under these conditions, use only the precision hand application method and avoid contacting leaves with the spray solution.

#### Storage and Disposal

##### Pesticide Disposal:

Do not contaminate water, food or feed by storage or disposal. Open dumping is prohibited. Wastes resulting from the use of this product are acutely hazardous. Improper disposal of unused pesticide, spray mixture, or rinsate that cannot be used according to label instructions must be disposed of according to federal, state or local procedures. For guidance in proper disposal methods, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office.

##### Container Disposal:

Do not reuse empty container. Triple rinse (or equivalent) and offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or by incineration, or by open burning, if allowed by state and local authorities. If burned, keep 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 1-800-688-8372 day or night.



Store at temperatures above 32°F.

Precautionary Statements

Hazards to Humans and Domestic Animals

DANGER

Corrosive - causes eye damage. Causes skin irritation or skin sensitization on repeated contact. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and protective clothing when handling. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist.

First Aid: In case of contact with the eyes, immediately flush with plenty of water and get medical attention. In case of contact with skin, wash immediately with soap and water. If swallowed, drink plenty of water. Do not induce vomiting. Avoid alcohol. Call a physician immediately. In case of inhalation exposure, move from the contaminated area. Note to Physician: There is no specific antidote for Prime +. Lavage stomach. Give a saline laxative or slurry of activated carbon in water and supportive therapy.

Environmental Hazards

This pesticide is toxic to fish. Do not apply directly to lakes, streams, or ponds. Do not apply when weather conditions favor drift from treated areas. Do not contaminate water by cleaning of equipment or disposal of wastes.

Prime +® trademark of CIBA-GEIGY

Balan® trademark of Elanco Products for benfluralin

Basalin® trademark of BASF/Wyandotte Corp., for fluchloralin

Paarlan® trademark of Elanco Products for isopropalin

Prowl® trademark of American Cyanamid for pendimethalin

Treflan trademark of Elanco Products for trifluralin

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CIBA-GEIGY Corporation  
Greensboro, North Carolina 27419

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CGA 73L9 (DRAFT)  
CGA 73L11 (DRAFT) (w/o est. no.)

CIBA-GEIGY

Revised	August 17, 1983
Revised	February 3, 1984
Revised	December 8, 1984
Revised	September 4, 1985
Revised	May 12, 1987
Revised	November 20, 1989
Revised	April 25, 1991
Revised	January 17, 1992

[GANNONC.LABELP]  
PRIME-F40 - 1/20/92

(Back Cover)

Prime +Ⓢ

A Plant Growth Regulator for  
Control of Tobacco Suckers

Active Ingredients:

2-chloro-N-[2,6-dinitro-4-(trifluoromethyl)phenyl]-N-ethyl-  
6-fluorobenzenemethanamine . . . . .

15%

Inert Ingredients:

85%

Total:

100%

Prime + contains 1.2 lbs. active ingredient  
per gallon.

See directions for use in folded sheet  
attached to jug.

EPA Reg. No. 100-640  
EPA Est. 100-LA-1

Keep Out of Reach of Children

DANGER

PELIGRO

PRECAUCIÓN AL USUARIO: Si usted no lee inglés,  
no use este producto hasta que la etiqueta  
haya sido explicado ampliamente.

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One Gallon  
U.S. Standard Measure

Precautionary Statements

Hazards to Humans and Domestic Animals

Corrosive - causes eye damage. Causes skin irritation or skin sensitization on repeated contact. Do not get in eyes, on skin, or on clothing. Wear goggles or face shield and protective clothing when handling. Harmful if swallowed, inhaled, or absorbed through the skin. Avoid breathing spray mist.

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

STORE AT TEMPERATURE ABOVE 32°F

Prime +® trademark of CIBA-GEIGY

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CGA 73L9 (DRAFT)  
CGA 73L11 (DRAFT) (w/o est. no.)

CIBA-GEIGY

[GANNONC.LABELP]  
PRIME-F40 - 1/17/92

	August 17, 1983®
Revised	February 3, 1984
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Revised	November 20, 1989
Revised	April 25, 1991
Revised	January 17, 1992