

PH 25
L-11
P. 1000

(Front Cover)

Prime +[®]

A Plant Growth Regulator for
Control of Tobacco Suckers

One Gallon
U. S. Standard Measure

Active Ingredients:

2-chloro-N-[2,6-dinitro-4-(trifluoromethyl)phenyl]-N-ethyl-6-fluorobenzenemethanamine	15%
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Inert Ingredients:	85%
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Total:	100%
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Prime + contains 1.2 lbs. active ingredient per gallon.

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

ACCEPTED
JUL 14 1987
<small>Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 100-640</small>

Keep Out of Reach of Children.

DANGER

PELIGRO

PRECAUCION AL USUARIO: Si usted no lee ingles, 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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Agricultural Division
CIBA-GEIGY Corporation
P. O. Box 1830
Greensboro, N.C. 27419

CGA 73L9
CGA 73L11

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.

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.

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DIRECTIONS FOR USE

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 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 worker. 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."

General Information

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.

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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.)

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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 Application with 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.

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.

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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[®], Paarlan[®], Prowl[®], or Treflan[®] to increase early season crop stunting. Thorough disk-ing 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.

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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 (919) 292-7100 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.

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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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CGA 73L9
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August 17, 1983
Revised February 3, 1984
Revised December 8, 1984
Revised September 4, 1985
Revised May 12, 1987

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See directions for use in folded sheet attached to jug.

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EPA Est. 100-LA-1

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Revised August 17, 1983
Revised February 3, 1984
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