

# Prime+®

## A Plant Growth Regulator for Control of Tobacco Suckers

**Active Ingredient:**  
2-chloro-N-(2,6-dinitro-4-(trifluoromethyl) phenyl)-N-ethyl-6-fluorobenzene-methanamine... 15%

**Inert Ingredients:** 85%

**Total:** 100%

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**One Gallon**  
U. S. Standard Measure

Prime+ contains 1.2 lbs. active ingredient per gallon.

Keep Out of Reach of Children.

**DANGER/PELIGRO**  
**PRECAUCIÓN 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

See directions for use in booklet.

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

Prime+ is trademark of CIBA-GEIGY

Agricultural Division  
CIBA-GEIGY Corporation  
Greensboro, NC 27419  
CGA 73L9D 077

## CIBA-GEIGY

### DIRECTIONS FOR USE AND CONDITIONS OF SALE AND WARRANTY

**IMPORTANT:** Read the entire Directions for Use and Conditions of Sale and Warranty before use of this product.

#### Conditions of Sale and Warranty

The Directions for Use of this product are based on the experience of experts based on field use and tests. The directions are believed to be the best and should be followed as closely as possible. It is impossible to eliminate all risks inherent in the 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.

**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 to the foliage of plants directly through the drift exposure workers or other persons engaged in the work involved in the application. The area being treated must be vacated by unprotected persons.

#### Reentry 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 oral warnings must be given to 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 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."

Written oral warnings must be given to 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 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."

#### 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.

#### 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 flowering stage, but in the early flower stage, or later stages, 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 2.5 fl. oz. of Prime+ in 49 gals. of water and apply as a hand 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 carry-over injury to rotational crops.** Spray volume per plant will generally be 1.5-2.5 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 2.5 fl. oz. of Prime+ in 49 gals. of water and apply as a hand 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 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 to four nozzles per row, one nozzle to the top of the stalk in 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.

CGA 73L9D

NOT REWIND  
 IN ACCORDANCE  
 WITH EPA REG. NO. 100-640  
 7-14-87

**Sequential Application with Maleic Hydrazide**

Mix 1 qt. of Prime + in 49 1/2 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 controlled. Applications made later than those indicated above 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 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 the 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\*, Paalan\*, Prowl\*, or Trellan\* 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 more 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 severe burns 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.

Balan\* trademark Elanco Products for benefin

Basalin\* trademark of BASF Wyandotte Corp. for fluchloralin

Paalan\* trademark of Elanco Products for isopropalin

Prime + \* trademark of CIBA-GEIGY

Prowl\* trademark of American Cyanamid for pendimethalin

Trellan\* trademark of Elanco Products for trifluralin

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CGA 73L9D

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Active Ingredient	
2-chloro-N-[2,6-dinitro-4-trifluoromethyl) phenyl]-N-ethyl-6-fluorobenzene-methanamine.....	15%
Inert Ingredients	85%
Total	100%

Prime + contains 1.2 lbs active ingredient per gal

See directions for use in attached booklet

STORE AT TEMPERATURES ABOVE 32° F

EPA Reg. No. 100-640

EPA Est. 100-LA-1

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**One Gallon**

U S Standard Measure

**Keep Out of Reach of Children. DANGER/PELIGRO**

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

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