



19713-17

# MALEIC HYDRAZIDE 2P

Liquid Growth Retardant for  
Preventing Growth of Tobacco Suckers.

**ACTIVE INGREDIENTS:**

Potassium salt of 6-hydroxy-3(2H)	
Pyridazinone*	27.8%

INERT INGREDIENTS:	72.2%
	<u>TOTAL 100.0%</u>

\*Hereafter called Potassium salt of maleic hydrazide.  
Equivalent to 20% maleic hydrazide. One gallon  
contains 2 pounds as maleic hydrazide.

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

**STATEMENT OF PRACTICAL TREATMENT**

**IF SWALLOWED.** Call a physician or Poison Control Center. Drink 1 or 2 glasses of water and induce vomiting by touching back of throat with finger. Repeat until vomit fluid is clear. Do not induce vomiting or give anything by mouth to an unconscious person.

**IF SPLASHED IN EYES.** Immediately flush eyes with plenty of water for at least 15 minutes and get medical attention.

**IF SPILLED ON SKIN.** Immediately remove contaminated clothing INCLUDING SHOES and wash skin with soap and plenty of water. If irritation develops, send for a physician.

**SEE LEFT SIDE PANEL FOR ADDITIONAL  
PRECAUTIONARY STATEMENTS**

Net Contents \_\_\_\_\_

EPA Reg No. 19713-17  
EPA Est No. 19713-MS-1



**Drexel Chemical Company**  
P.O. BOX 8300, MIDDLETOWN, TENN. 37092

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

HARMFUL IF SWALLOWED: Avoid breathing of spray mist. Avoid contact with skin and eyes. Wear regular long sleeved work clothing when applying product. Wash thoroughly after handling. Remove and wash contaminated clothing before reuse.

ENVIRONMENTAL HAZARDS

Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes. Do not apply when weather conditions favor drift from areas treated.

DIRECTIONS FOR USE:

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

To Prevent Sucker Development on Flue-Cured and Burley Tobacco: MALEIC HYDRAZIDE 2P, a plant inhibitor, offers a new method of controlling sucker growth by keeping suckers from growing rather than by killing them. Since MALEIC HYDRAZIDE 2P is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper 1/3 to 1/2 of the plant. It is very important to apply equal amounts of MALEIC HYDRAZIDE 2P to each plant at time of topping.

When to Spray: Satisfactory sucker control depends on correct timing of the spray.

- a. If all plants flower at about the same time, proceed as follows: As soon as the plants are in Full Flower, top, pull all suckers from early maturing plants and spray MALEIC HYDRAZIDE 2P uniformly onto the entire field within 24 hours after topping (see note 1 - 13.)
- b. If there is a wide range in the time of flowering, the following procedure should be used:
  1. Go through the field and top the few early-flowering plants.
  2. Wait until the remaining plants are in Full Flower, top them, remove all suckers from the entire field, and apply MALEIC HYDRAZIDE 2P within 24 hours after topping (see notes 1-13). Tip leaves to be harvested should be at least 6 inches long at time of spraying.

How to Spray: MALEIC HYDRAZIDE 2P may be applied with either tractor or mule-drawn insecticide sprayer, or with a compressed air shoulder sprayer.

- a. Tractor or mule-drawn insecticide sprayers. Any number of nozzles may be used. Can be applied in the same manner as insecticide, spraying one or more rows at a time, wetting upper 1/3 to 1/2 of plant.
- b. Compressed air shoulder sprayer with single nozzle spraying a wide cone. Spray one side of each tobacco row while walking at a constant rate. Use up and down motion of spray nozzle to moisten upper 6 to 8 leaves of each plant. Apply equal amounts of spray to each plant.

Amount to Use: Flue cured, burley, cigar (Pennsylvania and Wisconsin) and Maryland tobacco - apply 1 to 1½ pints per 1000 plants or 1 to 1½ gallons per 8,000 plants per acre. Example: Use 3 to 4½ quarts of MALEIC HYDRAZIDE 2P for 6,000 plants per acre. Use not less than 20 gallons of water per acre (from 20 to 50 gallons of water per acre can be used - see note 8).

Dark Tobacco - apply 2½ pints of MALEIC HYDRAZIDE 2P per 1,000 plants or use 2½ gallons per 8,000 plants. Example: Use 6 ¾ quarts of MALEIC HYDRAZIDE 2P for 6,000 plants per acre. Use not less than 20 gallons of water per acre (from 20 to 50 gallons of water per acre can be used - see note 8).

NOTES - TOBACCO:

1. To control tobacco suckers apply MALEIC HYDRAZIDE 2P at the proper time. Too early spraying may prevent normal development of top leaves. Too late spraying will allow some sucker growth. FULL FLOWER is the stage when 90% of your plants have begun to shed their first flowers.
2. At 32°F. and below, the formulation will form solids. It readily redissolves, but must be warmed to 40°F. or above. The larger the container the more time is needed to completely redissolve the precipitate.
3. Follow dosage recommendations carefully, spray field uniformly and do not use less than the minimum amount of water recommended on tobacco.
4. Do not use on tobacco plants grown for seed production.
5. Do not spray tobacco in the middle of hot, dry days when leaves are severely wilted. For best results spray during early morning, all day on cloudy days, avoiding the late afternoon or night applications. (Use a nozzle delivering a fine mist spray. Do not use a broad jet type of spray).

6. Closely hand-suckered or MALEIC HYDRAZIDE 2P treated tobacco will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions MALEIC HYDRAZIDE 2P treated tips have a tendency to turn yellow prematurely. This is not harmful and does not mean that your tobacco is ripe. Therefore, do not harvest MALEIC HYDRAZIDE 2P treated tobacco by using time and color of the leaves as your only guide to ripeness. Use other characteristics indicative of ripeness such as:
  - a. Fading of color from midrib.
  - b. Change in apparent leaf texture.
7. If tobacco plants have been grown under drought conditions absorption of MALEIC HYDRAZIDE 2P will be slow and results may not be as good as plants grown under more favorable moisture conditions.
8. Too little MALEIC HYDRAZIDE 2P will result in less than desired control. Too much is wasteful and may cause burning of leaves and may reduce quality of tips.
9. It is not corrosive to spray equipment. It does not offer drift problems on nearby crops.
10. Rinse spray equipment with water after application. Do not contaminate water supplies by cleaning of equipment or disposal of wastes.
11. Use only one application of Maleic Hydrazide 2P per season.
12. Allow at least 7 days after application before harvest.
13. Should wash off occur within 6 hours, a single repeat application may be made.

STORAGE AND DISPOSAL

PESTICIDE DISPOSAL

Pesticide, spray mixture, or rinse water that cannot be used according to label instructions must be disposed of according to Federal or approved state procedures under Subtitle C of the Resource Conservation and Recovery Act.

CONTAINER DISPOSAL

Triple rinse (or equivalent). Then offer for recycling or reconditioning, or dispose of in a sanitary landfill, or by incineration if allowed by state and local authorities.

WARRANTY - CONDITION OF SALE:

DIRECTIONS FOR USE of this product are based on field use and tests believed reliable and should be followed carefully. It is however impossible to eliminate all risks associated with use of this product. Because such factors as weather conditions, foreign material and manner of use for application are all beyond the control of the Seller of this product, such things as crop injury, ineffectiveness or other unintended consequences may result.

ALL SUCH RISKS ARE ASSUMED BY THE BUYER

Seller 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. Seller makes no other warranties, express or implied, including FITNESS OR MERCHANTABILITY. In no case shall the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.