

19713-17

08/05/2003

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

OFFICE OF  
PREVENTION, PESTICIDES AND  
TOXIC SUBSTANCES

Luz G. Piwonka  
Registration Manager  
Drexel Chemical Company  
P.O. Box 13327  
Memphis, TN 38113-0327

AUG 5 2003

Subject: DREXEL Maleic Hydrazide 2P  
EPA Reg No. 19713-17  
Your amendment dated December 7, 2001

Dear Ms Piwonka:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act as amended is acceptable provided the following change is made:

- Remove the word "PENDING" from the top of the label.
- Remove the strike-out text and the highlighting of the new text.

One copy of the label stamped "Accepted with comments" is enclosed for your records.

Please submit one (1) copy of the final printed label before you release the product for shipment.

If you have any questions, please contact Robert Westin by phone at (703) 305-5721 or via email at [westin.robert@epa.gov](mailto:westin.robert@epa.gov).

Sincerely,

A handwritten signature in black ink, appearing to be "C. Giles-Parker".

Cynthia Giles-Parker  
Product Manager (22)  
Fungicide Branch  
Registration Division (7505C)

Enclosure

ACCEPTED  
with COMMENTS  
In EPA Letter Dated:

AUG 5 2003

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

19713-17

PENDING

Drexel

# Maleic Hydrazide 2P

Liquid Growth Retardant

For preventing growth of Tobacco suckers

## ACTIVE INGREDIENT:

Potassium salt of 6-hydroxy-3-(2H)-

Pyridazinone\* ..... 27.8%

OTHER INGREDIENTS: ..... 72.2%

TOTAL: ..... 100.0%

\*Hereafter called Potassium salt of maleic hydrazide.

Equivalent to 20% Maleic hydrazide.

This product contains 2 pounds of Maleic hydrazide.

KEEP OUT OF REACH OF CHILDREN

## CAUTION

See FIRST AID Below  
SHAKE WELL BEFORE USING

EPA Reg. No. 19713-17

EPA Est. No. 19713-TN-1

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

### FIRST AID

#### IF IN EYES:

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.

#### IF SWALLOWED:

- Call a poison control center or doctor immediately for treatment advice.
- Have person sip a glass of water if able to swallow.
- Do not induce vomiting unless told to do so by a poison control center or doctor.
- Do not give anything by mouth to an unconscious or convulsing person.

#### IF ON SKIN OR CLOTHING:

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.

#### IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.

Call a poison control center or doctor for treatment advice. Have the product container or label with you when calling a poison control center or doctor, or going for treatment. For information on this pesticide product (including health concerns, medical emergencies or pesticide incidents), call the National Pesticide Telecommunications Network at 1-800-858-7378.

### PRECAUTIONARY STATEMENTS

#### Hazards to Humans and Domestic Animals

**CAUTION:** Causes moderate eye irritation. Harmful if swallowed, absorbed through skin or inhaled. Avoid contact with skin, eyes or clothing. Avoid breathing spray mist.

#### PERSONAL PROTECTIVE EQUIPMENT (PPE)

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category A on an EPA chemical-resistance category selection chart.

Applicators and other handlers must wear: Long-sleeved shirt and long pants, shoes plus socks and waterproof gloves, chemical-resistant gloves made of any waterproof material such as polyethylene or polyvinyl chloride.

Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. (Continued)

### PRECAUTIONARY STATEMENTS (Cont.)

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR 170.240 (d) (4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should: 1) Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. 2) Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing. 3) Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

### ENVIRONMENTAL HAZARDS

For terrestrial uses, do not apply directly to water or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**Note:** Add this statement to all container sizes of 5 gallons and higher. Do not discharge effluent containing this product into lakes, streams, ponds, estuaries, oceans or other waters, unless in accordance with the requirements of a National Pollutant Discharge Elimination System (NPDES) permit and the permitting authority has been notified in writing prior to discharge. Do not discharge effluent containing this product to sewer systems, without previously notifying the local sewage treatment plant authority. For guidance, contact your State Water Board or Regional Office of the EPA.

### SURFACE WATER ADVISORY

Under some conditions, Maleic hydrazide may have a significant potential for runoff into surface water (primarily via dissolution in runoff water) for several days post-application. Conditions favoring runoff include poorly drained soils or wet soils with readily visible slopes, frequently flooded areas, areas where an intense or sustained rainfall is forecast to occur within 48 hours, areas overlying extremely shallow groundwater, and areas overlying tile drainage systems that flow to surface water.

### DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. **DO NOT APPLY THIS PRODUCT THROUGH ANY TYPE OF IRRIGATION SYSTEM.** Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS) 40 CFR Part 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE) and restricted entry interval (REI) and notification to workers. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard. (Continued)

Manufactured By:

**Drexel Chemical Company**

P.O. BOX 13327, MEMPHIS, TN 38113-0327

SINCE 1972

17SP-12011 Pending

MALEIC HYDRAZIDE 2P Page 1 of 2

**AGRICULTURAL USE REQUIREMENTS (Cont.)**

Do not enter or allow worker entry into treated areas during the restricted-entry interval REI of 12 hours.

~~Personal Protective Equipment PPE~~ required for early entry to treated areas that is permitted under the Worker Protection Standard WPS and that involves contact with anything that has been treated, such as plants, soil or water is: Coveralls, waterproof gloves, chemical-resistant gloves, made of any waterproof material and shoes plus socks.

**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 this product is absorbed and moves inside the Tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper one-third to one-half of the plant. It is very important to apply equal amounts of this product to each plant at time of topping.

**WHEN TO SPRAY:** Satisfactory sucker control depends on correct timing of the spray.

1. 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 this product uniformly onto the entire field within 24 hours after topping (See "NOTES" 1-13).
2. If there is a wide range in the time of flowering, the following procedure should be used:
  - a. Go through the field and top the few early-flowering plants.
  - b. Wait until the remaining plants are in full flower, top them, remove all suckers from the entire field, and apply this product 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:** This product may be applied with either a 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 one-third to one-half 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 nozzles 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 (PA and WI) and MD Tobacco—**Apply 1 to 1.5 pints per 1,000 plants or 1 to 1.5 gallons per 8,000 plants per acre.

Example: Use 3 to 4.5 quarts of this product for 6,000 plants per acre. Do not use 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 2.5 pints of this product per 1,000 plants or use 2.5 gallons per 8,000 plants.

Example: Use 6.75 quarts of this product for 6,000 plants per acre. Do not use less than 20 gallons of water per acre (from 20 to 50 gallons of water per acre can be used—See "NOTE" 8).

**NOTES:**

1. To control Tobacco suckers apply this product at the proper time. Spraying too early may prevent normal development of top leaves. Spraying too late 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 Tobacco treated with this product will not ripen as rapidly as poorly-suckered Tobacco. Also, under some conditions, tips treated with this product have a tendency to turn yellow prematurely. This is not harmful and does not mean that your Tobacco is ripe. Therefore, do not harvest Tobacco treated with this product 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 this product will be slow and results may not be as good as plants grown under more favorable moisture conditions.
8. Too little of this product will result in less than desired control. Too much is wasteful and may cause burning of leaves and may reduce quality of tips.
9. This product 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 this product per season.
12. Allow at least 7 days after application before harvest.
13. Should washoff occur within 8 hours, a single repeat application may be made.

**STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Storage should be under lock and key in a ventilated room and secure from access by unauthorized persons and children. Storage should be in a cool, dry area away from heat or ignition sources. Do not stack over 2 pallets high. Move containers by handles or case. Do not move containers from one area to another unless they are securely sealed. Keep container tightly sealed when not in use. Keep away from any puncture source. Avoid storage near water supplies, food, feed and fertilizer to avoid contamination. Store in original containers only. If the contents are leaking or material is spilled follow these steps:

1. Contain spill. Absorb with a material such as sawdust, clay granules or dirt.
2. Collect and place in suitable containers for disposal.
3. Wash area with soap and water to remove remaining pesticide.
4. Follow washing with clean water rinse.
5. Place a leaking container in a plastic tub and transfer contents, as soon as possible, to an empty, original container.
6. Do not allow runoff to enter sewer or contaminate water supplies.
7. Dispose of waste.

**PESTICIDE DISPOSAL:** Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

**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**

OUR RECOMMENDATIONS FOR USE of this product are based upon tests believed reliable. Follow directions carefully. Timing and method of application, weather and crop conditions, mixtures with other chemicals not specifically recommended and other influencing factors in the use of this product are beyond the control of the Seller. Buyer assumes all risks of use, storage and handling of this material not in strict accordance with directions given herewith.

In no case shall the Manufacturer or the Seller be liable for consequential, special or indirect damages resulting from the use or handling of this product when such use and/or handling is not in strict accordance with directions given herewith. The foregoing is a condition of sale by the Seller and is accepted as such by the Buyer.

