

ACCEPTED

OCT 29 1970

FEDERAL BUREAU OF INVESTIGATION
U.S. DEPARTMENT OF JUSTICE
400 St

**CAUTION! KEEP OUT OF REACH OF CHILDREN.
HARMFUL IF SWALLOWED. Prolonged or Repeated Inhalation of Mist or
Contact With Skin and Eyes May Be Harmful**

ROYAL MH-30[®]

GROWTH RETARDANT - PREVENTS TOBACCO SUCKER GROWTH WITH SORBATRAN[®]

**5 GALLONS LIQUID
COMPOSITION****

Active Ingredient Percent by Weight
Potassium Salt 1
6-hydroxy-3,2H-pyridazin-4-one 29.7
Inert Ingredients 70.3
TOTAL 100
One gallon contains 1.5 pounds active ingredient
**Patent Pending

another product of



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Lot No.

NOTES

1. To control tobacco suckers apply Royal MH-30 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. Rains occurring within 6 hours after spraying may reduce effectiveness.
3. Follow dosage recommendations carefully, spray field uniformly and do not use less than 20 gallons of water per acre.
4. Compatibility studies with Royal MH-30 and tobacco insecticides have not been completed. Separate application is recommended.
5. Do not use on tobacco plants grown for seed production.
6. 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.)
7. Closely hand-suckered tobacco or tobacco treated with Royal MH-30 will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions Royal MH-30 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 tobacco treated with Royal MH-30 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.
8. If tobacco plants have been grown under drought conditions, absorption of Royal MH-30 will be slow and results may not be as good as plants treated under normal conditions.
9. Too little Royal MH-30 will result in less than desired control, too much reduces quality of tips.
10. Royal MH-30 is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water.
11. Even though Royal MH-30 is non-volatile, no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when serial applications are being made.
12. The active ingredient in Royal MH-30 will separate from the surfactant at temperatures above 134°F. If containers are exposed to excessive heating, the contents can be remixed by lowering the temperature of the entire formulation below 134°F and applying agitation.

FISH AND WILDLIFE

Do not contaminate water by cleaning of equipment or disposal of wastes.

CONTAINER DISPOSAL

Chop holes top and bottom. Bury 18" below soil surface at safe disposal site. Never reuse for food or water.

ROYAL MH-30[®]

**GROWTH RETARDANT
PREVENTS TOBACCO
SUCKER GROWTH**

DIRECTIONS FOR USE

To prevent sucker development on flue cured, burley, dark fire, Maryland and cigar (Pennsylvania and Wisconsin) tobacco.

Royal MH-30 is a new formulation of maleic hydrazide used to prevent sucker development in tobacco. Since Royal MH-30 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 Royal MH-30 to each plant at the correct time to obtain satisfactory sucker control.

Under favorable conditions, Royal MH-30 kills tobacco suckers in a manner similar to contact agents through systemic action.

WHEN TO SPRAY

For flue cured, burley, dark fire and Maryland tobacco.

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 Royal MH-30 uniformly onto the entire field within 24 hours after topping (See notes 1-9.)

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 Royal MH-30 within 24 hours after topping. (See notes 1-9.)

Tip leaves to be harvested should be at least 6 to 8 inches long at time of spraying.

For Pennsylvania cigar tobacco

1. If your field flowers uniformly:

- a. Top when about 1/4 to 1/2 of your plants show one or more open flowers on each head.
- b. Wait three days after topping.
- c. Spray Royal MH-30.

For best results Royal MH-30 should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.

2. If your field doesn't flower uniformly:

- a. When flowering in your field is particularly uneven you should top when about 50 to 60 percent of the plants show one or more open flowers per head.
- b. Wait three days after topping and remove by hand any suckers more than two inches long.
- c. Spray Royal MH-30 over your entire field.

For Wisconsin cigar tobacco

1. Top the field when most of the plants in your field are in full flower.
2. Remove, by hand, any suckers larger than one or two inches.
3. Spray within 24 hours after topping and removal of suckers.

HOW TO SPRAY

Royal MH-30 may be applied with either tractor or mule-drawn insecticide sprayer, or with a compressed air shoulder sprayer.

1. Tractor or mule-drawn insecticide sprayers. Any number of nozzles may be used. (See Note 6.) Can be applied in the same manner as insecticide, spraying one or more rows at a time, wetting upper 1/2 to 1/3 of plant.
2. 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 SPRAY

Apply the indicated amounts of Royal MH-30 in 20 to 50 gallons of water per acre; do not use less than 20 gallons of water per acre.

For flue cured, burley, cigar (Pennsylvania, Wisconsin) and Maryland tobacco: apply 1.5 to 2 pints of Royal MH-30 per 1000 plants. Example: use 1.5 to 2 gallons Royal MH-30 for 8000 plants per acre.

For dark tobacco: Apply 3.0 pints of Royal MH-30 per 1000 plants. Example: use 3.0 gallons Royal MH-30 for 8000 plants per acre.

Important Notice: Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on the label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this warranty nor any other warranty of merchantability or fitness for a particular purpose, express or implied, extends to the use of this product contrary to label instructions, or under abnormal conditions, or under conditions not reasonably foreseeable to Seller, and Buyer assumes the risk of any such use.

NOTE: ALWAYS SHAKE OR STIR WELL BEFORE USE

Made in U. S. A. U.S.D.A. Reg. No. 400-84

UNIROYAL CHEMICAL Division of UNIROYAL, Inc. Naugatuck, Connecticut 06770