



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

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10/14

OFFICE OF
PREVENTION, PESTICIDES AND
TOXIC SUBSTANCES

WILLIARD F. CUMMINGS
UNIROYAL CHEMICAL COMPANY INC.
74 AMITY ROAD
BETHANY, CT. 06524

Subject: Label Amendment Submission of 8/8/93 in Response to PR Notice 93-7
EPA REG. NO. 400-84
RPYAL MH-30

Dear Registrant:

The labeling cited above and submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is accepted. A copy of your proposed labeling stamped "ACCEPTED WITH COMMENTS" is enclosed.

WHAT THIS ACCEPTANCE MEANS:

Based on your certification, the Agency has accepted the labeling changes that are necessary to comply with the Worker Protection Standard (WPS) labeling requirements of 40 CFR part 156, subpart K, described in PR Notices 93-7 and 93-11. Any other labeling changes submitted in connection with this amendment application but not directly related to compliance with the WPS have not been reviewed or accepted by the Agency. If you wish to make such changes, you must submit a separate amendment application proposing them. If your product is currently suspended, the acceptance of this labeling amendment does not affect the suspension in any way.

WHAT YOU NEED TO DO NEXT:

Send to EPA one (1) copy of the final printed labeling:

- BEFORE selling or distributing any product bearing the final printed labeling
- AND
- WITHIN one year from date of this acceptance.



Recycled/Recyclable
Printed with Soy/Canola Ink on paper that
contains at least 50% recycled fiber

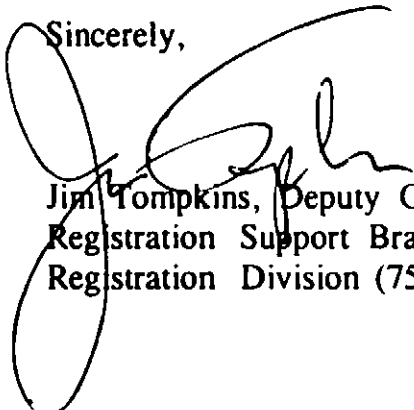
Submit the final printed labeling via the U.S. Postal Service to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs (7505C)
U.S. Environmental Protection Agency
401 M Street, SW
Washington, D.C. 20460-0001

Hand or courier deliveries of final printed labeling may be made to:

Document Processing Desk (FIN-LABEL)
Office of Pesticide Programs
Room 266A, Crystal Mall 2
1921 Jefferson Davis Highway
Arlington, VA 22202

Sincerely,



Jim Tompkins, Deputy Chief
Registration Support Branch
Registration Division (7505W)

Attachment

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UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division

Willard F Cummings
UNIROYAL CHEMICAL CO INC
74 AMITY RD
BETHANY CT 06524

Comment for: EPA Reg Nr.400-84
ROYAL MH-30

The following specific comments pertain to your WPS
labeling submission concerning the product
cited above:

No comment.

41, 5

ROYAL MH-30®

GROWTH RETARDANT - WITH SORBATRAN®

CONTROLS TOBACCO SUCKER GROWTH

**UNIROYAL
CHEMICAL**

ACCEPTED
FOR COMMENTS
to EPA Letter Dated

FEB 18 1994

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

400-84

COMPOSITION

Active Ingredient: (% by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	21.7%*
Inert Ingredients	78.3%
Total:	100.0%

* One gallon contains 1.5 pounds as maleic hydrazide

UNIROYAL CHEMICAL COMPANY, INC., Middlebury, CT 06749
EPA REG. NO. 400-84
EPA EST. NO.

003WPS

NET CONTENTS

KEEP OUT OF REACH OF CHILDREN CAUTION

STATEMENT OF PRACTICAL TREATMENT

IF IN EYES: Flush eyes with plenty of water. Call a physician if irritation persists.
IF ON SKIN: Wash with plenty of soap and water.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS CAUTION

Causes eye irritation. Avoid contact with skin, eyes or clothing.

PERSONAL PROTECTIVE EQUIPMENT

Applicators and Other Handlers Must Wear: Long-sleeved shirt and long pants; waterproof gloves; shoes plus socks.
Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.
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:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

Do not apply directly to water or wetlands (swamps, bogs, marshes, and potholes). Do not contaminate water when disposing of equipment washwaters.

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, 40 CFR Part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and 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. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

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

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water, is: coveralls; waterproof gloves; shoes plus socks

BEST AVAILABLE COPY

NOTES

1. Even though ROYAL MH-30 is non-volatile, no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift where aerial applications are being made.
2. 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.
3. Rains occurring within 6 hours after spraying may reduce effectiveness. Should wash off occur within 6 hours, a single repeat application may be made.
4. Follow dosage recommendations carefully and spray field uniformly.
5. Compatibility studies with ROYAL MH-30 and tobacco insecticides have not been completed. Separate application is recommended.
6. Do not use on tobacco plants grown for seed production.
7. Do not spray tobacco in the middle of hot, dry days when leaves are severely wilted. For best results spray during the early morning, all day on cloudy days, avoiding the late afternoon or night applications. (Use a nozzle delivering a fine mist spray.)
8. 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.
9. 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.
10. Too little ROYAL MH-30 will result in less than the desired control, too much reduces quality of tips.
11. Use only one application of ROYAL MH-30 per season.
12. Allow at least 7 days after application before harvest.
13. Do not apply this product through any type of irrigation system.

TOBACCO 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 potassium salt 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 $\frac{1}{2}$ to $\frac{3}{4}$ 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.

TIMING

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 1-12).
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 1-12). 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 $\frac{1}{4}$ to $\frac{1}{2}$ 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 a conventional sprayer, or with a compressed air shoulder sprayer.

1. ROYAL MH-30 can be applied by spraying one or more rows at a time, wetting upper $\frac{1}{2}$ to $\frac{3}{4}$ of plant.
2. Compressed air shoulder sprayer with 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.

RATE OF APPLICATION

Apply the indicated amounts of ROYAL MH-30 in 40 to 50 gallons of water per acre; Apply at 40 to 50 psi.

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 of 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.

NOTE: ALWAYS SHAKE OR STIR WELL BEFORE USE.

STORAGE AND DISPOSAL

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

STORAGE: 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. Always shake or stir well before use.

PESTICIDE DISPOSAL: Pesticide wastes are toxic. Improper disposal of excess pesticide, spray mixture or rinsate is a violation of Federal Law. If these wastes cannot be disposed of by use according to label instructions, contact your State Pesticide or Environmental Control Agency, or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Plastic Containers: Triple rinse (or equivalent). Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or if allowed by State and local authorities, by burning. If burned stay out of smoke.

Metal Containers: Return empty containers for reuse.

EQUIPMENT CLEANING: ROYAL MH-30 is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water.

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.

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