

ROYAL MH-30[®]SG

WATER SOLUBLE GRANULE GROWTH RETARDANT FOR POTATOES, ONIONS, FALLOW LAND, Grass, AND ORNAMENTALS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS**
WARNING
Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS
Do not apply directly to water. Do not contaminate water by cleaning of equipment or disposal of wastes.

ACCEPTED
SEP 10 1987

Under Fungicide, Growth Retardant, Pesticide, Registered under EPA Reg. No. 400-165

UNIROYAL

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE: Store in a dry location.

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.

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

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill, or by incineration if permitted by State and local authorities. Dispose of carton in the same manner.

COMPOSITION

Active Ingredients: (% by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients:	20.0%
Total:	100.0%

**Contains 60% by weight of maleic hydrazide
U.S. Patent No. 3,503,729

KEEP OUT OF REACH OF CHILDREN WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

- IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- IF SWALLOWED: Drink large quantities of water and induce vomiting by placing finger in back of throat.
- IF IN EYES: Flush with plenty of water and call a physician.
- IF ON SKIN: Wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

UNIROYAL CHEMICAL COMPANY, INC.

Middlebury, CT 06749

EPA REG. NO. 400-165

EPA EST. NO.

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NET WEIGHT:

Lot No.

9-24-86

REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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 or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written or oral warnings must include the following information:

"WARNING" "Area to be treated with ROYAL MH-30SG on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If accidentally exposed, consult the Statement of Practical Treatment portion of the pesticide label for first aid recommendations."

NOTES

1. Follow dosage recommendations carefully and spray field uniformly.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Uneven application may result in budend cracking and/or elephant hide on potato tubers.
7. To obtain desired results plants should not be stressed from either too little or excessive water before or after application.
8. **IMPORTANT:** Geographical response of potato plants.

EAST OF THE ROCKY MOUNTAINS

Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.

WEST OF THE ROCKY MOUNTAINS

Reduced sizing, yield, tuber cracking and/or "elephant hide" disorders have been observed in some instances following application of ROYAL MH-30SG on potatoes grown under irrigation in the Northwest. At this time, the association, if any, between these disorders and ROYAL MH-30SG use is not clear or confirmed. Until such time as the association or lack of association can be determined, ROYAL MH-30SG is not recommended for use on irrigated potatoes, and use on any potatoes, irrigated or not, is at the user's own risk. Uniroyal will not be responsible for any loss incurred by users should any of these disorders occur after the application of ROYAL MH-30SG.

All turn areas treated should contain well established perennial grasses at least three years old.

Do not add any extra wetting agents or commercial spray adjuvants to ROYAL MH-30SG spray solutions except as specified under potatoes and onions.

Do not handle treated plants until sprays have dried.

MIXING INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank 3/4 full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

DIRECTIONS FOR USE

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage. Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present. This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity. The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Kergold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre.

West of the Rocky Mountains: Use in a minimum of 10 gallons of water per acre.

East of the Rocky Mountains: Use in a sufficient quantity of water to gain complete uniform coverage.

Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

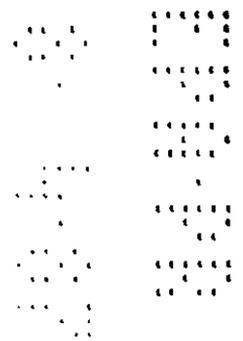
Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.



**SHRUBS AND DECIDUOUS TREES
TO RETARD THE GROWTH OF CERTAIN ORNAMENTAL S**

BENEFITS

ROYAL MH-30SG is used to suppress excessive vegetative growth and reduce the need to mechanically prune or shear.

APPLICATION TIMING:

The best procedure is to apply to plants that have been previously pruned into the desired shape. Some regrowth should be allowed before treatment to hide fresh cut ends of limbs or stems to prevent a barren appearance of the treated plant. ROYAL MH-30SG should only be used on vigorous, healthy plants.

The following trees can be treated with ROYAL MH-30SG:

- | | | | |
|-------------------------|--------------------------|------------------|------------------------|
| Acacia, Black | Cypress, Monterey | Linden | Poplar |
| Alder | Dogwood | Madrone | Redbud, Western |
| Ash | Elderberry | Manzanita | Redwood |
| Bay (California Laurel) | Elm | Maple | Walnut |
| Birch | Eucalyptus | Mulberry | Wax-Myrtle, California |
| Box-Elder | Fir, Douglas | Pine, Monterey | Willow, Black |
| Buckeye, California | Brevillea Silk Oak | Plane (Sycamore) | Oak |
| Catalpa | Liquid Amber (Sweet Gum) | | |
- ROYAL MH-30SG will effectively retard excessive vegetative growth on the following shrubs:
- | | | | |
|-----------|-------------|------------|----------|
| Cissus | Honeysuckle | Privet | Viburnum |
| Eugenia | Myrtus | Pyracantha | Xylosoma |
| Forsythia | Pittosporum | | |

ROYAL MH-30SG may be used to inhibit the growth of Hahn and Algerian Ivy. A special use for ROYAL MH-30SG is for weed control in Ice Plant. It may be used for both emerged broadleaf weed and annual grass control without injury to the herbaceous growth.

All areas to be inhibited should be sprayed to drip-point covering all surfaces of leaves and stems. If only one section of a tree is to be controlled, spray just that section and normal growth will continue in the unsprayed sections. Do not spray where wind velocity exceeds 15 mph. Drift should not go on nearby crops.

Best results are obtained when spray is applied to green, vigorous, new growth. On trees, new leaves should be fully expanded when treatment is made. ROYAL MH-30SG should be used once a year - in spring, after new growth has started, or in early summer - usually after pruning when new regrowth is about 2 to 4 inches in length.

RATE OF APPLICATION:

ROYAL MH-30SG is recommended for all uses at a rate of 4-5 lbs. per 100 gallons of water. Use the higher rate on shrubs and trees that are vigorous.

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TURF

TO CONTROL THE GROWTH OF PERENNIAL GRASSES ON COMMERCIAL TURF LOCATIONS

BENEFITS

ROYAL MH-30SG is used mostly as a substitute for mechanical mowing on various commercial turf locations such as hard-to-mow areas along highways, airport property, military installations, Federal, state and municipal properties, industrial areas, golf course roughs and similar areas. It can be used for grass inhibition on all turf areas except on fine lawns (where esthetic appearance is more important than reducing a maintenance chore) and on those areas under heavy foot traffic (such as golf course fairways and greens, except for Poa Annuua control).

Perennial grasses effectively retarded by ROYAL MH-30SG are: bluegrasses, fescues, bromegrass, orchard grass, quackgrass and perennial rye. Bentgrass can be inhibited, but often shows discoloration effects. ROYAL MH-30SG will injure St. Augustine grass and should not be used on this species.

The growth retardant action of ROYAL MH-30SG greatly reduces or prevents seed stalk and seed head formation and slows leaf growth. If the application is timed properly, no significant growth will occur for several weeks after the treatment. As the effect gradually "wears off", the turf may grow to 6-12 inches in height by the end of the growing season.

APPLICATION TIMING

SPRING

Apply spring treatments when grass is 2-3 inches tall for the best growth control. This timing usually occurs just before and during early dandelion or forsythia bloom. If this timing period is missed and the grass reaches a height of 6 inches or more, spray and then mow 5 to 7 days later. UNDER NO CONDITIONS SHOULD GRASS BE CUT SHORTER THAN 3 TO 4 INCHES. The grass growth rate is greatly reduced by a ROYAL MH-30SG treatment. A "short cut" may produce a scalped or light brown effect, especially if dry weather follows.

AUTUMN

ROYAL MH-30SG may also be applied late in the growing season to reduce grass growth the following spring. Treatment should be made while grass is still green but before it becomes dormant (usually during October). An additional benefit of Fall treatment is control of wild onion, garlic and biennial type weeds such as dandelion and plantain. Since grass growth is inhibited the following spring, the area will "green up" about two weeks later than untreated turf.

One application per year either Spring or Fall should be used. At either time, the area to be treated must be green and actively growing. Turf to be treated must be free of leaf cover or other debris which would prevent direct contact of the spray with the grass.

RATE OF APPLICATION

Apply 7 to 10 lbs. of ROYAL MH-30SG in 30-50 gallons of water. Use the higher rate for fall applications and when a longer period of retardation is desired.

On grass where broadleaf growth is a problem, ROYAL MH-30SG may be used in a tank-mix combination with low volatile ester or amine formulations of 2,4-D. One pound of 2,4-D per acre should be used with ROYAL MH-30SG in most spring applications. Follow dosage and precautionary information of the 2,4-D label. If weeds have not emerged at time of ROYAL MH-30SG application a separate, later spray of 2,4-D is recommended to control these weeds.

APPLICATION EQUIPMENT:

Applications may be made with standard booms using flat fan type nozzle tips in the 80° series, i.e. 8003, 8004. These tips should be placed on 10 inch centers and turned 45° out from the boom line. This spacing allows 50% overlap when the boom is 18-20 inches above the grass and a uniform spray pattern. Applications may also be made with off center nozzle systems. Accurate calibration is required using low speed speedometers. Spraying should not be done on excessively windy days.

SPECIAL GRASS AREAS

GOLF COURSE FAIRWAYS: ROYAL MH-30SG may be used to reduce Poa annua (annual blue grass) in golf course fairways. Recommended procedure is to first mow area twice in normal sequence (usually 5 to 6 days apart). When third mowing is needed and before first Poa annua seed heads appear, apply 1 1/2 lbs. of ROYAL MH-30SG in 30-40 gallons of water per acre. Do not use over 40 gallons per acre as effectiveness may be reduced. The effect of this treatment should be evident in 8-10 days showing up as a reduction in Poa annua reseeding with little retardation of desirable grass growth.

OVERSEEDING RYEGRASS IN BERMUDAGRASS: Excessive growth of Bermudagrass on golf greens and fairways is often a problem in the fall after verticutting, fertilization, overseeding and top dressing. Apply ROYAL MH-30SG in late September or early October to inhibit the growth of Bermuda grass and enable ryegrass or other grasses to produce a good stand. Use 3 1/2 lbs. of ROYAL MH-30SG in 50 gallons of water per acre. ROYAL MH-30SG should be applied with a calibrated boom. The Bermudagrass must be in good condition. Overseed no sooner than 48 hours after spraying.

HOME LAWNS: ROYAL MH-30SG is not recommended as an overall treatment for prime lawns or other fine turf areas. ROYAL MH-30SG can be used as a band or edge treatment of lawns where it is difficult to trim mechanically. Examples are: along walls, around trees, rocks, etc.

SPECIAL NOTE: Because of the difficulties in applying ROYAL MH-30SG at a uniform rate and dosage to small areas, some color modification may occur. Any slightly abnormal color of the treated area is a temporary effect. At times, the treated grass may be a greener color than untreated turf. Do not apply ROYAL MH-30SG during the summer or other than times permanent grasses are dormant under drought conditions.

FALLOW LAND

TO CONTROL SILVERLEAF NIGHTSHADE

BENEFITS

Silverleaf nightshade is a troublesome perennial weed that over winters and may compete with subsequent crops and cultivations. ROYAL MH-30SG may be applied to Silverleaf nightshade in the fall after the season's crop is harvested. The effect on the weed obtained is no subsequent growth and eventual kill the following spring.

RATE OF APPLICATION:

Apply 15 lbs. of ROYAL MH-30SG in 10-20 gallons of water per acre.

APPLICATION TIMING:

Apply to Silverleaf nightshade during periods of active growth but after crop harvest. It may be applied to Silverleaf nightshade...

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ROYAL MH-30[®]SG

WATER SOLUBLE GRANULE GROWTH RETARDANT FOR POTATOES AND ONIONS

**PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS
WARNING**

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

UNIROYAL

ACCEPTED

APR 10 1986

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, for the pesticide registered under EPA Reg. No. 220-765

DIRECTIONS FOR USE

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

COMPOSITION

Active Ingredients: (% by weight)

Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients:	20.0%
Total:	100.0%

**Contains 60% by weight of maleic hydrazide
U.S. Patent No. 3,503,729

STORAGE AND DISPOSAL

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

STORAGE: Store in a dry location.

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.

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

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill, or by incineration if permitted by State and local authorities. Dispose of carton in the same manner.

**KEEP OUT OF REACH OF CHILDREN
WARNING**

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiqueta haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

IF SWALLOWED: Drink large quantities of water and induce vomiting by placing finger in back of throat.

IF IN EYES: Flush with plenty of water and call a physician.

IF ON SKIN: Wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

Uniroyal Chemical Company, Inc.
Middlebury, CT 06749

EPA REG. NO. 400-165
EPA EST. NO.

2/04/86

Lot. No.

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NET CONTENTS:

REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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 or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written or oral warnings must include the following information:

"WARNING" Area to be treated with ROYAL MH-30^{SG} on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If accidentally exposed, consult the Statement of Practical Treatment portion of the pesticide label for first aid recommendations."

NOTES.

1. Follow dosage recommendations carefully and spray field uniformly.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30^{SG} is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30^{SG} application to potatoes and the use of a vine killer.
6. Uneven application may result in budend cracking and/or elephant hide on potato tubers.
7. To obtain desired results plants should not be stressed from either too little or excessive water before or after application.
8. **IMPORTANT:** Geographical plant response.

EAST OF THE ROCKY MOUNTAINS

Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30^{SG}. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.

WEST OF THE ROCKY MOUNTAINS

Reduced sizing, yield, tuber cracking and/or "elephant hide" disorders have been observed in some instances following application of ROYAL MH-30^{SG} on potatoes grown under irrigation in the Northwest. At this time, the association, if any, between these disorders and ROYAL MH-30^{SG} use is not clear or confirmed. Until such time as the association or lack of association can be determined, ROYAL MH-30^{SG} is not recommended for use on irrigated potatoes, and use on any potatoes, irrigated or not, is at the user's own risk. Uniroyal will not be responsible for any loss incurred by users should any of these disorders occur after the application of ROYAL MH-30^{SG}.

MIXING INSTRUCTIONS

- NOTE: ROYAL MH-30^{SG} must be dissolved first if it is to be tank mixed with an insecticide or fungicide.
1. Be sure sprayer is clean and not contaminated with any material.
 2. Fill tank ¾ full with clean water, and start agitation.
 3. Pour ROYAL MH-30^{SG} slowly from bag into tank. Avoid dumping all contents at once.
 4. Allow 2-3 minutes agitation for dissolving.
 5. Add compatible tank mix insecticide or fungicide if needed.
 6. Complete filling tank.

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**DIRECTIONS FOR USE
ONIONS
TO CONTROL SPROUTING OF ONIONS IN STORAGE**

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

RATE OF APPLICATION

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

BENEFITS

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

DIRECTIONS FOR USE

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage. Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present. This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity. The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russel Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre.

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Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

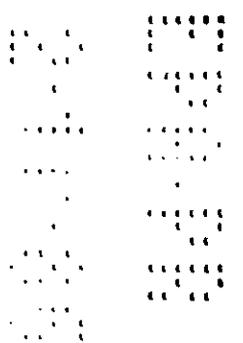
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ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

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.



ROYAL MH-30[®]SG

WATER SOLUBLE GRANULE GROWTH RETARDANT FOR POTATOES AND ONIONS

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS WARNING

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

ACCEPTED

APR 18 1985

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

UNIROYAL

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

STORAGE: Store in a dry location.

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.

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

CONTAINER DISPOSAL: Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill, or by incineration if permitted by State and local authorities. Dispose of carton in the same manner.

COMPOSITION

Active Ingredients: (% by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients:	20.0%
Total:	100.0%

**Contains 60% by weight of maleic hydrazide
U.S. Patent No. 3,503,729

KEEP OUT OF REACH OF CHILDREN WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que le etiquete haya sido explicado ampliamente.

STATEMENT OF PRACTICAL TREATMENT

- IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- IF SWALLOWED: Drink large quantities of water and induce vomiting by placing finger in back of throat.
- IF IN EYES: Flush with plenty of water and call a physician.
- IF ON SKIN: Wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
Naugatuck, Connecticut 06770
EPA REG. NO. 400-165
EPA EST. NO.

3-23-85

*Cat. No.

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NET CONTENTS:

REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons.

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 or oral warnings must be given to workers who are expected to be in a treated area or in an area about to be treated with this product. When oral warnings are given, warnings shall be given in a language customarily understood by workers. Oral warnings must be given if there is reason to believe that written warnings cannot be understood by workers. Written or oral warnings must include the following information:

"WARNING" "Area to be treated with ROYAL MH-30SG on (date of application). Do not enter without appropriate protective clothing until sprays have dried. If accidentally exposed, consult the Statement of Practical Treatment portion of the pesticide label for first aid recommendations."

NOTES

1. Follow dosage recommendations carefully and spray field uniformly.
 2. Do not use on potato plants grown for seed production.
 3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted or to nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
 4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness..
 5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
 6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG.
7. To obtain desired results plants should not be stressed from either too little or excessive water before or after application.

MIXING INSTRUCTIONS

NOTE:ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

DIRECTIONS FOR USE

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

RATE OF APPLICATION

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

IMPORTANT NOTICE: Reduced sizing, yield, tuber cracking and/or "elephant hide" disorders have been observed in some instances following application of Royal MH-30 SG on potatoes grown under irrigation in the Northwest. At this time, the association, if any, between these disorders and Royal MH-30 SG use is not clear or confirmed. Until such time as the association or the lack of association can be determined, Royal MH-30 SG is not recommended for use on irrigated potatoes, and use on any potatoes, irrigated or not, is at the user's own risk. Uniroyal will not be responsible for any loss incurred by users should any of these disorders occur after the application of Royal MH-30 SG.

BENEFITS

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

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~

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

DIRECTIONS FOR USE

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage. Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present. This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity. The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre.

West of the Rocky Mountains: Use in a minimum of 10 gallons of water per acre.

East of the Rocky Mountains: Use in a sufficient quantity of water to gain complete uniform coverage.

Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

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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ROYAL MH-30[®]SG

WATER SOLUBLE GRANULE GROWTH RETARDANT FOR POTATOES AND ONIONS

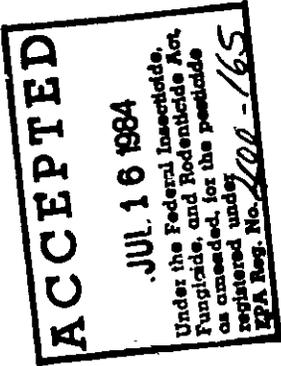
PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS

WARNING

Causes eye irritation. Do not get in eyes, on skin, or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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



DIRECTIONS FOR USE

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

REENTRY STATEMENT

Do not apply this product in such a manner as to directly or through drift expose workers or other persons. The area being treated must be vacated by unprotected persons. Do not enter treated areas without protective clothing until sprays have dried.

COMPOSITION

Active Ingredients: (% by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert ingredients:	20.0%
Total:	100.0%

**Contains 60% by weight of maleic hydrazide

STORAGE AND DISPOSAL

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

STORAGE: Store in a dry location.

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.

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

CONTAINER DISPOSAL: Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill, or by incineration if permitted by State and local authorities. Dispose of carton in the same manner.

KEEP OUT OF REACH OF CHILDREN

WARNING

AVISO

PRECAUCION AL USUARIO: Si usted no lee ingles, no use este producto hasta que la etiqueta haya sido explicada ampliamente.

STATEMENT OF PRACTICAL TREATMENT

- IF INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
- IF SWALLOWED: Drink large quantities of water and induce vomiting by placing finger in back of throat.
- IF IN EYES: Flush with plenty of water and call a physician.
- IF ON SKIN: Wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENT

UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
Newatuck, Connecticut 06770
EPA REG. NO. 400-165
EPA EST. NO.

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NET CONTENTS:

7-3-84
Lot. No.

NOTES

1. Follow dosage recommendations carefully and spray field uniformly.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
7. Uneven application may result in budend cracking and/or elephant hide on potato tubers.
8. For maximum uptake; plants should not be under water stress either before or after application.

MIXING INSTRUCTIONS

NOTE:ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank 3/4 full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

DIRECTIONS FOR USE

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

RATE OF APPLICATION

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

**POTATOES
BENEFITS**

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

DIRECTIONS FOR USE

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage. Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present. This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity. The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Norgeld or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre.

West of the Rocky Mountains: Use in a minimum of 10 gallons of water per acre.

East of the Rocky Mountains: Use in a sufficient quantity of water to gain complete uniform coverage.

Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

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.

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

Causes eye irritation.
Do not get in eyes, on skin or on clothing.
Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticides, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

COLLATERAL LABEL

ROYAL MH-30^oSG

**WATER SOLUBLE GRANULE GROWTH RETARDANT
FOR TOBACCO**

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

ACCEPTED

DEC 22 1983

United States Federal Insecticide,
Fungicide, and Rodenticide Act,
Registration No. for the pesticide
registered under
EPA Reg. No. 400-165

**KEEP OUT OF REACH OF CHILDREN.
WARNING!**

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

*Trademark of UNIROYAL, Inc.

UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.

••• NAUGATUCK, CONNECTICUT 06770

••• EPA Reg. No. 400-165

••• EPA Est. No.

10-2-82

Lot No.

NET CONTENTS:

MIXING INSTRUCTIONS

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving as tank filling is continued.

TOBACCO

DIRECTIONS FOR USE

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

ROYAL MH-30SG is a potassium salt formulation of maleic hydrazide used to prevent sucker development in tobacco. Since ROYAL MH-30SG is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper $\frac{1}{3}$ to $\frac{1}{2}$ of the plant. It is very important to apply equal amounts of ROYAL MH-30SG to each plant at the correct time to obtain satisfactory sucker control.

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 EARLY FLOWER, top, pull all suckers from early maturing plants and spray ROYAL MH-30SG 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-30SG 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.
3. For best results ROYAL MH-30SG should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.

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-30SG. For best results ROYAL MH-30SG 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-30SG 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-30SG may be applied with a conventional sprayer, or with a compressed air shoulder sprayer.

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.

RATE OF APPLICATION:

For flue cured, burley, cigar (Pennsylvania, Wisconsin) and Maryland tobacco: Apply 4 to 5 pounds of ROYAL MH-30SG in 40 to 50 gallons of water per acre. Operate sprayer at 40 to 50 psi.

For dark tobacco: Apply 1 pound of ROYAL MH-30SG per 1000 plants. Use 40 to 50 gallons of water per acre and operate sprayer at 40 to 50 psi. Do not exceed 7.5 pounds of ROYAL MH-30SG 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.

209634

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

Causes eye irritation.
Do not get in eyes, on skin or on clothing.
Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray
mixture or rinse water that cannot be
used according to label instructions must
be disposed of according to applicable
Federal, State or local procedures.

EQUIPMENT CLEANING — ROYAL MH-
30SG is not corrosive to spray equip-
ment. Following applications all spray
equipment should be thoroughly rinsed
with water.

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Com-
pletely empty liner or bag by shaking
and tapping sides and bottom to loosen
clinging particles. Empty residue into
application equipment. Then dispose of
liner or bag in a sanitary landfill or by
incineration if allowed by State and
local authorities. Dispose of carton in
the same manner.

COLLATERAL LABEL

ROYAL MH-30^oSG

**WATER SOLUBLE GRANULE GROWTH RETARDANT
FOR POTATOES AND ONIONS**



ACCEPTED
DEC 22 1983
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 400-165

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3, 6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

NOTES

1. Follow dosage recommendations carefully and spray field uniformly and do not use less than 30 gallons of water per acre.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
7. Uneven application may result in bud-end cracking and/or elephant hide or potato tubers.
8. For optimum uptake, plants should not be under water stress either before or after application.

**KEEP OUT OF REACH OF CHILDREN.
WARNING!**

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.
If in eyes, flush with plenty of water and call a physician.
If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

*Trademark of UNIROYAL, Inc.
UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUBATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

7-3-83

Lot No.

NET CONTENTS:

GENERAL INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or a fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{1}{2}$ full with clear water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

Rate of Application

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

Benefits

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

Directions For Use

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage.

Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present.

This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity.

The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1 1/2"-2" in diameter (and elongating) at time of spraying.

Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1 1/2" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre

West of Rocky Mountains: Use in a minimum of 10 gallons of water per acre.

East of the Rocky Mountains: Use in

a sufficient quantity of water to give complete uniform coverage.

Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

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.

BEST AVAILABLE COPY

COLLATERAL LABEL

ROYAL MH-30[®] SG

WATER SOLUBLE GRANULE GROWTH RETARDANT
FOR POTATOES AND ONIONS

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

ACCEPTED
OCT 28 1983
Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

NOTES

1. Follow dosage recommendations carefully and spray field uniformly and do not use less than 30 gallons of water per acre.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
7. Uneven application may result in bud-end cracking and/or elephant hide or potato tubers.
8. For optimum uptake; plants should not be under water stress either before or after application.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS WARNING

Causes eye irritation.
Do not get in eyes, on skin or on clothing.
Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

KEEP OUT OF REACH OF CHILDREN. WARNING!

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUGATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-3-82
Lot No.

NET CONTENTS:

MIXING INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or a fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

Rate of Application

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

Benefits

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

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Directions For Use

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage.

Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present.

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Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1 1/2" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

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East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

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.

24634

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

Causes eye irritation.

Do not get in eyes, on skin or on clothing.
Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

COLLATERAL LABEL

ROYAL MH-30[®] SG

**WATER SOLUBLE GRANULE GROWTH RETARDANT
FOR TOBACCO**

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

ACCEPTED

OCT 28 1983

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

NOTES

1. To control tobacco suckers apply ROYAL MH-30SG 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. Should wash off occur within 6 hours, a single repeat application may be made.
3. Follow dosage recommendations carefully and spray field uniformly.
4. Compatibility studies with ROYAL MH-30SG 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 the early morning, all day on cloudy days, avoiding the late afternoon or night applications. (use a nozzle delivering a fine mist spray.)
7. Closely hand-suckered tobacco or tobacco treated with ROYAL MH-30SG will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions ROYAL MH-30SG 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-30SG 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-30SG will be slow and results may not be as good as plants treated under normal conditions.
9. Too little ROYAL MH-30SG will result in less than the desired control, too much reduces quality of tips.
10. Use only one application of ROYAL MH-30SG per season.
11. Allow at least 7 days after application before harvest.
12. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops.

**KEEP OUT OF REACH OF CHILDREN.
WARNING!**

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

*Trademark of UNIROYAL, Inc.
UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUBATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-2-82
Lot No.

NET CONTENTS:

25634

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

Causes eye irritation.

Do not get in eyes, on skin or on clothing.
Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fill carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

COLLATERAL LABEL

ROYAL MH-30[®] SG

**WATER SOLUBLE GRANULE GROWTH RETARDANT
FOR TOBACCO**

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

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Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

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9. Too little ROYAL MH-30SG will result in less than the desired control, too much reduces quality of tips.
10. Use only one application of ROYAL MH-30SG per season.
11. Allow at least 7 days after application before harvest.
12. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops.

KEEP OUT OF REACH OF CHILDREN.

WARNING!

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.
If in eyes, flush with plenty of water and call a physician.
If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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NAUGATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-2-82
Lot No.

NET CONTENTS:

COLLATERAL LABEL

ROYAL MH-30^o SG

WATER SOLUBLE GRANULE GROWTH RETARDANT FOR POTATOES AND ONIONS

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

ACCEPTED

OCT 18 1983

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

NOTES

1. Follow dosage recommendations carefully and spray field uniformly
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
7. Uneven application may result in bud-end cracking and/or elephant hide on potato tubers.
8. For optimum uptake; plants should not be under water stress either before or after application.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS WARNING

May be fatal if inhaled. Causes eye irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

KEEP OUT OF REACH OF CHILDREN. WARNING!

STATEMENTS OF PRACTICAL TREATMENT

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If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

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NAUBATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

7-3-83
Lot No.

NET CONTENTS:

ONION INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or a fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

Rate of Application

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

Benefits

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

Directions For Use

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage.

Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present.

This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity.

The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG per acre.

West of Rocky Mountains: Use in a minimum of 10 gallons of water per acre.

East of the Rocky Mountains: Use in a sufficient quantity of water to gain complete uniform coverage.

Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystalize on the leaf surface and not be absorbed into the plant.

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.

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

May be fatal if inhaled. Causes eye irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

COLLATERAL LABEL

ROYAL MH-30[®] SG

WATER SOLUBLE GRANULE GROWTH RETARDANT

FOR TOBACCO

ACCEPTED

DEC 14 1982

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 17100-165

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

**KEEP OUT OF REACH OF CHILDREN.
WARNING!**

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

*Trademark of UNIROYAL, Inc.
UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUGATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-2-82
Lot No.

NET CONTENTS:

NOTES

1. To control tobacco suckers apply ROYAL MH-30SG 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. Should wash off occur within 6 hours, a single repeat application may be made.
3. Follow dosage recommendations carefully and spray field uniformly.
4. Compatibility studies with ROYAL MH-30SG 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 the early morning, all day on cloudy days, avoiding the late afternoon or night applications. (use a nozzle delivering a fine mist spray.)
7. Closely hand-suckered tobacco or tobacco treated with ROYAL MH-30SG will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions ROYAL MH-30SG 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-30SG 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-30SG will be slow and results may not be as good as plants treated under normal conditions.
9. Too little ROYAL MH-30SG will result in less than the desired control, too much reduces quality of tips.
10. Use only one application of ROYAL MH-30SG per season.
11. Allow at least 7 days after application before harvest.
12. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops.

29 of 34

MIXING INSTRUCTIONS

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving as tank filling is continued.

TOBACCO

DIRECTIONS FOR USE

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

ROYAL MH-30SG is a potassium salt formulation of maleic hydrazide used to prevent sucker development in tobacco. Since ROYAL MH-30SG is absorbed and moves inside the tobacco plant, spraying the whole plant is not necessary. Best results are obtained by spraying the upper $\frac{1}{3}$ to $\frac{1}{2}$ of the plant. It is very important to apply equal amounts of ROYAL MH-30SG to each plant at the correct time to obtain satisfactory sucker control.

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 EARLY FLOWER, top, pull all suckers from early maturing plants and spray ROYAL MH-30SG 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-30SG 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.
3. For best results ROYAL MH-30SG should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.

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-30SG. For best results ROYAL MH-30SG 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-30SG 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-30SG may be applied with a conventional sprayer, or with a compressed air shoulder sprayer.

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.

RATE OF APPLICATION:

For flue cured, burley, cigar (Pennsylvania, Wisconsin) and Maryland tobacco: Apply 4 to 5 pounds of ROYAL MH-30SG in 40 to 50 gallons of water per acre. Operate sprayer at 40 to 50 psi.

For dark tobacco: Apply 1 pound of ROYAL MH-30SG per 1000 plants. Use 40 to 50 gallons of water per acre and operate sprayer at 40 to 50 psi. Do not exceed 7.5 pounds of ROYAL MH-30SG 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.

COLLATERAL LABEL

**PRECAUTIONARY
STATEMENTS
HAZARDS TO HUMANS
WARNING**

May be fatal if inhaled. Causes eye irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Fiber carton with liners or bags: Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

ROYAL MH-30[®] SG

WATER SOLUBLE GRANULE GROWTH RETARDANT*

ACCEPTED

DEC 14 1982

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazine dione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

**Contains 60% by weight of maleic hydrazide)
U.S. Patent No. 3,503,729

**KEEP OUT OF REACH OF CHILDREN.
WARNING!**

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.
If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.
If in eyes, flush with plenty of water and call a physician.
If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

*Trademark of UNIROYAL, Inc.
UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUGATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-3-82

Lot No.

NET CONTENTS:

NOTES

1. Follow dosage recommendations carefully and spray field uniformly and do not use less than 30 gallons of water per acre.
2. Do not use on potato plants grown for seed production.
3. Even though ROYAL MH-30SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
4. Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
5. At least a 2-week interval should be allowed between a ROYAL MH-30SG application to potatoes and the use of a vine killer.
6. Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
7. Uneven application may result in bud-end cracking and/or elephant hide on potato tubers.
8. For optimum uptake; plants should not be under water stress either before or after application.

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MIXING INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or a fungicide.

1. Be sure sprayer is clean and not contaminated with any material.
2. Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
3. Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
4. Allow 2-3 minutes agitation for dissolving.
5. Add compatible tank mix insecticide or fungicide if needed.
6. Complete filling tank.

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing

ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

Rate of Application

NOTE: Uniform and complete coverage is essential for good sprout control.

Ground Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application

Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of Rocky Mountains: use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

CAUTION

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES Benefits

Sprout Control

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade

ROYAL MH-30SG may improve the grade of potatoes, especially Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Undersize Potatoes

ROYAL MH-30SG will help reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

Directions For Use

Timing

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage.

Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present.

This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity.

The following tuber sizes may also be used as a guide, provided the above conditions have been met.

Russet Burbank

The smallest tubers that are required to reach a minimum size of 4-6 oz. must be 1½-2" in diameter (and elongating) at time of spraying.

Norgold or Norchip

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties

The smallest tubers that are required to reach maximum size, should be 1½" in diameter at time of spraying.

Rate of Application

NOTE: Uniform and complete coverage is essential for satisfactory results.

Ground

Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial

Use 5 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the Royal MH-30SG.

East of the Rocky Mountains: Use of surfactants is normally not recommended.

Temperature

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

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.

BASIC LABEL

ROYAL MH-30[®] SG

WATER SOLUBLE GRANULE GROWTH RETARDANT

ACCEPTED

FOR TOBACCO, POTATOES AND ONIONS

DEC 14 1982

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 400-165

UNIROYAL

COMPOSITION

Active Ingredient (Percent by weight)	
Potassium salt of 1,2-dihydro-3,6-pyridazinedione	80.0%**
Inert Ingredients	20.0%
TOTAL	100.0%

** Contains 60% by weight of maleic hydrazide
U.S. Patent No. 3,503,729

NOTES

1. To control tobacco suckers apply ROYAL MH-30 SG 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. Should wash off occur within 6 hours, a single repeat application may be made.
3. Follow dosage recommendations carefully and spray field uniformly.
4. Compatibility studies with ROYAL MH-30 SG and tobacco insecticides have not been completed. Separate application is recommended.
5. Do not use on tobacco or potato 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 the early morning, all day on cloudy days, avoiding the late afternoon or night applications. (use a nozzle delivering a fine mist spray.)
7. Closely hand-suckered tobacco or tobacco treated with ROYAL MH-30 SG will not ripen as rapidly as poorly suckered tobacco. Also, under some conditions ROYAL MH-30 SG 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 SG 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 SG will be slow and results may not be as good as plants treated under normal conditions.
9. Too little ROYAL MH-30 SG will result in less than the desired control, too much reduces quality of tips.
10. Use only one application of ROYAL MH-30 SG per season.
11. Allow at least 7 days after application before harvest.

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS WARNING

May be fatal if inhaled. Causes eye irritation. Do not get in eyes, on skin or on clothing. Harmful if swallowed.

ENVIRONMENTAL HAZARDS

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

DIRECTIONS FOR USE

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

STORAGE AND DISPOSAL

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

PESTICIDE DISPOSAL — Pesticide, spray mixture or rinse water that cannot be used according to label instructions must be disposed of according to applicable Federal, State or local procedures.

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

STORAGE — Store in a dry location.

CONTAINER DISPOSAL:

Seal fiber carton with liners or bags; Completely empty liner or bag by shaking and tapping sides and bottom to loosen clinging particles. Empty residue into application equipment. Then dispose of liner or bag in a sanitary landfill or by incineration if allowed by State and local authorities. Dispose of carton in the same manner.

KEEP OUT OF REACH OF CHILDREN. WARNING!

STATEMENTS OF PRACTICAL TREATMENT

If inhaled, remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth. Get medical attention.

If swallowed, drink large quantities of water and induce vomiting by placing finger in back of throat.

If in eyes, flush with plenty of water and call a physician.

If on skin, wash thoroughly with soap and water.

SEE LEFT PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS.

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UNIROYAL CHEMICAL — Division of UNIROYAL, Inc.
NAUGATUCK, CONNECTICUT 06770
EPA Reg. No. 400-165
EPA Est. No.

10-1-82
Lot No.

NET CONTENTS.

- Even though ROYAL MH-30 SG is non-volatile no drift should be permitted onto nearby crops. Particular care should be taken to prevent drift when aerial applications are being made.
- Spray potatoes or onions at least 24 hours before rain or applying overhead irrigation. Rain or overhead irrigation occurring within 24 hours after application will reduce effectiveness.
- At least a 2-week interval should be allowed between a ROYAL MH-30 SG application to potatoes and the use of a vine killer.
- Occasional injury to the terminal growth of potato foliage has been observed following the application of ROYAL MH-30 SG. However, trials and usage indicate that this does not adversely affect the yield or the quality of the potato tubers at harvest if the chemical is applied according to label recommendations.
- Uneven application may result in bud-end cracking and/or elephant hide on potato tubers.
- For optimum uptake, plants should not be under water stress either before or after application.

TOBACCO

MIXING INSTRUCTIONS

- Be sure sprayer is clean and not contaminated with any material.
- Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
- Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
- Allow 2-3 minutes agitation for dissolving as tank filling is continued.

DIRECTIONS FOR USE

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

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

NOTE:

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

- If all plants flower at about the same time, proceed as follows: As soon as the plants are in EARLY FLOWER, top, pull all suckers from early maturing plants and spray ROYAL MH-30 SG uniformly onto the entire field within 24 hours after topping. (See notes 1-12).
- If there is a wide range in the time of flowering, the following procedure should be used:
 - Go through the field and top the few early flowering plants

- Wait until the flowering plants are in FULL FLOWER, top them, remove all suckers from the entire field, and apply ROYAL MH-30 SG within 24 hours after topping. (See notes 1-12.) Top leaves to be harvested should be at least 6 to 8 inches long at time of spraying.
- For best results ROYAL MH-30SG should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.

For Pennsylvania cigar tobacco:

- If your field flowers uniformly:
 - Top when about $\frac{1}{4}$ to $\frac{1}{2}$ of your plants show one or more open flowers on each head.
 - Wait three days after topping.
 - Spray ROYAL MH-30SG. For best results ROYAL MH-30SG should be sprayed on dry or nearly dry leaves. Avoid spraying on leaves covered with dew.
- If your field doesn't flower uniformly:
 - 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.
 - Wait three days after topping and remove by hand any suckers more than two inches long.
 - Spray ROYAL MH-30SG over your entire field.

For Wisconsin cigar tobacco:

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

HOW TO SPRAY:

ROYAL MH-30SG may be applied with a conventional sprayer, or with a compressed air shoulder sprayer. 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.

RATE OF APPLICATION:

For flue cured, burley, cigar (Pennsylvania, Wisconsin) and Maryland tobacco: Apply 4 to 5 pounds of ROYAL MH-30SG in 40 to 50 gallons of water per acre. Operate sprayer at 40 to 50 psi.

For dark tobacco: Apply 1 pound of ROYAL MH-30SG per 1000 plants. Use 40 to 50 gallons of water per acre and operate sprayer at 40 to 50 psi. Do not exceed 7.5 pounds of ROYAL MH-30SG per acre.

TANK MIX TREATMENT:

For sucker control of flue-cured tobacco, a tank mix of ROYAL MH-30SG + plus ROYALTAC-85 may be made.

Timing: Use a tank mix of ROYAL MH-30SG plus ROYALTAC-85 at early flower growth stage. Tobacco should have been topped and any suckers over 1" long removed. This tank mix usually follows a contact sucker chemical application, applied in the button stage.

How to spray: The spray mixture should be directed to the upper 1/3 of the plant and the sprayer operated at low pressure, similar to a contact application to insure that spray droplets are large enough for some of the mixture to run down the stalk.

RATE OF APPLICATION: Mix 3.75 pounds of ROYAL MH-30SG and 1 $\frac{1}{2}$ gallons of ROYALTAC-85 in about 47 gallons of water for each acre. Maintain good agitation after mixing and while spraying.

NOTE: Use only one application of this tank mix per growing season. Read and observe label precautions appearing on both ROYAL MH-30SG and ROYALTAC-85 before using.

ONIONS/RUBES

MIXING INSTRUCTIONS

NOTE: ROYAL MH-30SG must be dissolved first if it is to be tank mixed with an insecticide or fungicide.

- Be sure sprayer is clean and not contaminated with any material.
- Fill tank $\frac{3}{4}$ full with clean water, and start agitation.
- Pour ROYAL MH-30SG slowly from bag into tank. Avoid dumping all contents at once.
- Allow 2-3 minutes agitation for dissolving.
- Add compatible tank mix insecticide or fungicide if needed.
- Complete filling tank.

ONIONS

TO CONTROL SPROUTING OF ONIONS IN STORAGE

Timing: ROYAL MH-30SG should be applied when the bulbs are fully mature, have at least 5-8 green leaves, and necks soft enough for the tops to fall if they have not already done so. The spray is often applied when 50 percent of the tops have fallen but all tops are still green. This condition usually occurs about two weeks to 10 days before harvest time. Green tops are essential for the absorption of ROYAL MH-30SG.

Rate of Application:

NOTE: Uniform, complete coverage is essential for good sprout control.

Ground Application: Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial Application: Use 3-1/3 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8-12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants:

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG. East of Rocky Mountains: Use of surfactants is normally not recommended.

Temperature:

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

CAUTION:

Avoid spraying edible onions too early. Spongy bulbs may result if spraying is done earlier than two weeks before maturity.

Varieties:

Use of ROYAL MH-30SG should be combined with selection of a good-keeping variety. Do not apply to onion varieties with poor-keeping quality. ROYAL MH-30SG will not make poor-keeping varieties equal to good-keeping varieties.

POTATOES

BENEFITS

Sprout Control:

ROYAL MH-30SG will control sprouting of potatoes in storage. However, ROYAL MH-30SG will not make a poor-keeping potato such as Norgold or Norchip into a good-keeping potato.

Reduction of Volunteer Potatoes:

ROYAL MH-30SG will reduce the number of volunteer potatoes the following spring because of its ability to control sprouting. If it is applied at the proper time it will also reduce the number of undersize potatoes left in the field, which also reduces the potential for volunteers.

May Improve Grade:

ROYAL MH-30SG may improve the grade of potatoes, especially on the Russet Burbank variety, if the application is made prior to any secondary tuber formation.

Under-size Potatoes:

ROYAL MH-30SG will help to reduce any additional "sets" of potatoes, thus decreasing the number of undersize potatoes in the field at harvest.

Reduces Shrinkage:

ROYAL MH-30SG applications can reduce shrinkage in storage up to 15 percent.

DIRECTIONS FOR USE

Timing:

Timing is important. To allow translocation of chemical down to the tubers ROYAL MH-30SG should be applied after tubers are formed and while vines are still green and are free from insects, diseases or other damage.

Time of application may occur as early as 2-3 weeks past full bloom when the primary and secondary inflorescences have lost most of their flowers and a few third order inflorescences and buds are present.

This occurs when a few lower leaves show a yellow color. Application prior to this time may result in reduced size of potatoes and phytotoxicity.

The following tuber sizes may also be used as a guide. Provided the above conditions have been met.

Russet Burbank:

The smallest tubers that are required to reach a minimum size of 4-6 oz must be 1 $\frac{1}{2}$ " - 2" in diameter (and elongating) at time of spraying.

Norgold or Norchip:

The smallest tubers that are required to reach maximum size must be 2" or more in diameter at time of spraying.

Other Varieties:

The smallest tubers that are required to reach maximum size, should be 1 $\frac{1}{2}$ " in diameter at time of spraying.

Rate of Application:

NOTE: Uniform, complete coverage is essential for satisfactory results.

Ground: Use 5 pounds of ROYAL MH-30SG in a minimum of 30 gallons of water per acre.

Aerial: Use 5 pounds of ROYAL MH-30SG in a minimum of 10 gallons of water per acre. Do not fly at heights of less than 8 - 12 feet. Maintaining this height will give more uniform coverage and aid in preventing an excessive build-up of chemical on the left side of the treated swath. These heights should be reduced as cross-wind velocities exceed 2-4 MPH.

Spray Adjuvants:

West of Rocky Mountains: Use Regulaid, X-77 or R-11 at the rate of 1 quart per 100 gallons of spray solution in arid sections of the U.S. These products will help provide better coverage and aid in translocation of the ROYAL MH-30SG. East of Rocky Mountains: Use of surfactants is normally not recommended.

Temperature:

ROYAL MH-30SG should be applied at temperatures below 85°F or at temperatures below 80°F if the temperature is expected to exceed 85°F. ROYAL MH-30SG is water soluble and under high temperature and low humidity conditions will crystallize on the leaf surface and not be absorbed into the plant.

IMPORTANT NOTICE: Seller warrants that this product conforms to its chemical description and is reasonably fit for the purposes stated on label when used in accordance with the directions and instructions specified on the label under normal conditions of use, but neither this 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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ACCEPTED
DEC 14 1982
Under the Federal Insecticide,
Fungicide, and Rodenticide Act,
as amended, for the pesticide
registered under
EPA Reg. No. 4600-165

BEST AVAILABLE COPY

R-11 SPREADER-ACTIVATOR

NON-FOAMING, NON-IONIC, FOR AGRICULTURAL SPRAYS

DIRECTIONS FOR USE:

R-11 Spreader-Activator is a combined Spreader - Activator for increasing the efficiency of various agricultural chemicals. It should be used where quick wetting and uniform coverage of an agricultural chemical is required. Increases absorption and translocation — inhibits rust and corrosion. Rates of R-11 Spreader-Activator may vary with the conditions of application. Use just enough to form a uniform film. Excessive rates will not result in excessive foaming. Always add as the last ingredient to tank with agitator running.

SUGGESTIONS FOR USE:

Acaricides, Fungicides and Insecticides — Use 2 to 8 ounces per 100 gallons of spray.
Herbicides, Defoliant and Dessicants — Use 1/2 to 3 pints per 100 gallons of spray.
Livestock Sprays—Use 4 to 8 ounces per 100 gallons of spray
Soil Sterilants (top absorption) — Use 1% of total spray
Corn Post Emergence (Atrazine on quack grass, etc.)— Use 1/4 % to 1 % of total spray. Use higher rates at low temperatures.

PRINCIPAL FUNCTIONING AGENTS*

Octyl Phenoxy Polyethoxy Ethanol, Isopropanol, and Compounded Silicone % By Wt. 90%

CONSTITUENTS INEFFECTIVE AS SPRAY ADJUVANT 10%

Total 100%

KEEP OUT OF REACH OF CHILDREN!

CAUTION:

Causes eye irritation. In case of contact with eyes, immediately flush with water for at least 15 minutes. If irritation persists get medical attention. Avoid prolonged contact with skin.

Coll. Reg. No. 2935-50142-AA F-377

NOTICE: The statements made on this label, are believed to be true and accurate, but because of conditions of use which are beyond our control, WILBUR-ELLIS COMPANY does not make, nor does it authorize any agent or representative to make, any warranty, guarantee or representation, express or implied, concerning this material or the use thereof, except in conformity with the statements on the label. Neither WILBUR-ELLIS COMPANY nor the seller shall be held responsible in any manner for any personal injury or property damage or loss resulting to the buyer or to the other person from handling, storage or use of this material, not in accordance with directions. The buyer assumes all risk and liability resulting from improper handling.

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SPECIMEN LABEL