

# Royaltac<sup>®</sup>-M

sucker control

PEEL HERE  
TO OPEN 

## Contact Sucker Control on Tobacco

### ACTIVE INGREDIENTS: (% by weight)

octanol (C <sub>8</sub> ) . . . . .	36.2%*
decanol (C <sub>10</sub> ) . . . . .	48.2%*
related compounds (dodecanol – C <sub>12</sub> ) . . . . .	0.3%*

**OTHER INGREDIENTS:** . . . . . 15.3%

**Total:** . . . . . 100.0%

\*Contains 2.57 lb. octanol, 3.43 lb. decanol and 0.02 lb. dodecanol per gallon

\*Contains 308 grams octanol, 411 grams decanol and 3 grams dodecanol per liter

**KEEP OUT OF REACH OF CHILDREN**  
**DANGER / PELIGRO**

Si usted no entiende la etiqueta, busque a alguien para  
que se la explique a usted en detalle.


(If you do not understand this label, find someone to explain it to you in detail.)

See inside booklet for additional Precautionary Statements, and  
Directions for Use

For Product Use Information Call 1-866-761-9397

EPA REG. NO. 400-451

 EPA EST NO. 037429-GA-002

 EPA Est. No. 070815-GA-001

 EPA Est. No. 089332-GA-002

The EPA Establishment Number is identified by the circled  
letters that match the first two letters in the batch number.

011/051911  
505625-A

### FIRST AID

**IF IN EYES:**

- Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.
- Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.
- Call a poison control center or doctor for treatment advice.

**IF INHALED:**

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.
- Call a poison control center or doctor for further treatment advice.

**IF ON SKIN  
OR ON  
CLOTHING**

- Take off contaminated clothing.
- Rinse skin immediately with plenty of water for 15 to 20 minutes.
- Call a poison control center or doctor for treatment advice.

**NOTE TO PHYSICIAN:** Probable mucosal damage may contraindicate the use of gastric lavage.

**EMERGENCY ASSISTANCE:** Have the product container or label with you when calling a poison control center or doctor, or going for treatment:

**FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL**

**PROPHARMA: 1-866-303-6952 or +1-651-603-3432.**

**FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure or accident) CALL CHEMTREC: 1-800-424-9300 or +1-703-527-3887.**

Manufactured for:  
**MACDERMID AGRICULTURAL SOLUTIONS, INC**

245 Freight Street

Waterbury, CT 06702-1818

**NET CONTENTS: 2 GALLONS**

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Corrosive. Causes irreversible eye damage.** Do not get in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### PERSONAL PROTECTIVE EQUIPMENT (PPE):

Some materials that are chemical resistant to this product are barrier laminate, butyl rubber, nitrile rubber, neoprene rubber, polyvinyl chloride or viton. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**Mixers, Loaders, Applicators and Other Handlers Must Wear:** long-sleeved shirt and long pants; shoes plus socks; chemical resistant gloves; and goggles or face shield.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-5)], the handler PPE requirements may be reduced or modified as specified in the WPS.

### USER SAFETY RECOMMENDATIONS

Users should:

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

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment washwater or rinsate.

## DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling. Read all label directions carefully before use.

Do not apply this product through any type of irrigation system.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

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

Do not enter or allow worker entry into treated areas during the **restricted entry interval (REI) of 24 hours**.

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

### FOR USE ON TOBACCO

#### GENERAL

**ROYALTAC®-M** is a contact sucker control agent for flue-cured, burley and dark tobacco. Direct contact of **ROYALTAC-M** with the suckers is essential for effective control. The spray should wet the sides of the tobacco stalk and contact all leaf axils and small immature suckers.

See APPLICATION NOTES for additional important information.

## APPLICATION EQUIPMENT

When applied with power spray equipment, use three nozzles per row. One nozzle should be directed downward over the center of the row and the others should be about 9 inches on either side, directed at or slightly above the top of the stalk. The diluted **ROYALTAC-M** should be applied as a coarse spray from a height of 12 to 16 inches above the top leaves. For best results, the boom pressure should be kept at 20 to 25 pounds per square inch (psi) and should never exceed 30 psi. When a power sprayer is used, be sure the solution is thoroughly mixed before application begins, and maintain agitation during application.

If a hand-held or backpack sprayer is used, this product must be applied at a rate of 2/3 to one ounce of spray solution per plant (or enough to assure run down to the bottom of the plant). A coarse spray is recommended, directed downward at the top of the stalk from 6 to 8 inches above the top leaves. Only low tank pressure is required, and in no case should more than 20 psi be used. Be sure the solution is thoroughly mixed before application begins, and maintain agitation during application.

All sprayers should be equipped with a pressure regulator and pressure gauge.

## TIMING OF APPLICATION

**ROYALTAC-M** can be applied either before or after topping, preferably just after buttons have elongated and before flowers start to open. At this stage, few suckers are large enough to require removal by hand.

Best results are usually obtained by application of **ROYALTAC-M** as directed, and then topping within a week.

If tobacco is topped first, apply **ROYALTAC-M** within two days after topping. Any suckers longer than one inch should be removed while topping.

## RATE OF APPLICATION

### Flue-Cured Tobacco

Mix 2.0 gallons of **ROYALTAC-M** in 50 gallons of water. Apply 50 gallons of the diluted mixture per acre. If sucker growth is vigorous or if crop development in the field is irregular, second and third applications of **ROYALTAC-M**, at 3 to 5 day intervals, may be needed. For these additional applications, use 2.5 gallons of this product per acre in 50 gallons of water. Seven to 10 days after the last **ROYALTAC-M** application, apply ROYAL MH-30® (or other maleic hydrazide systemic sucker control product) at the labeled rate and timing.

### Air-Cured Tobacco (burley)

Mix 1.75 to 2.0 gallons of **ROYALTAC-M** in 50 gallons of water. Apply 40 to 60 gallons of diluted mixture per acre. For hand sprayers, mix 4 to 5 fluid ounces of this product per gallon spray solution. When applied by hand, one gallon of diluted solution will treat 130 to 190 plants.

### Dark Tobacco

Mix 2.25 to 3.0 gallons of **ROYALTAC-M** in 50 gallons of water. Apply 40 to 60 gallons of diluted mixture per acre. For hand sprayers, mix 6 to 8 fluid ounces of this product per gallon spray solution. When applied by hand, one gallon of diluted solution will treat 130 to 190 plants.

## SEQUENTIAL TREATMENT PROGRAMS

### Air-Cured (burley) and Dark Tobacco

**ROYALTAC-M** application may be followed in 7 to 10 days by ROYAL MH-30 (or other maleic hydrazide systemic sucker control agent) at the labeled rate. If a systemic material is not used, a second **ROYALTAC-M** application may be made 5 to 7 days after the first **ROYALTAC-M** application.

## TANK MIX APPLICATIONS

Before using any tank mix combination, carefully read and follow the directions, precautions and restrictions found on each product label. The more restrictive of label limitations and precautions must be followed.

### Flue-Cured Tobacco

A tank mixture of **ROYALTAC-M** and ROYAL MH-30 (or other maleic hydrazide systemic sucker control agent) may be applied to flue-cured tobacco at the early flower growth stage. This tank mix usually follows application of a contact sucker control agent. The tobacco should be topped, and all suckers over one inch long removed, before treatment.

Mix 2.0 gallons of **ROYALTAC-M** with 1.5 gallon of ROYAL MH-30 (or other maleic hydrazide product at equivalent labeled rate) in 50 gallons of water for each acre to be treated. Maintain good agitation after mixing and while spraying.

The tank-mixture is applied with motorized field sprayers (high clearance or tractor-mounted) equipped with solid-cone nozzles that deliver a coarse spray over the row.

**NOTE:** Use only one application of this tank mix per season. Tobacco must not be harvested earlier than 7 days after application of this tank mix.

#### **APPLICATION NOTES**

1. Applying **ROYALTAC-M** at concentrations higher than recommended may cause leaf damage.
2. Inspect spray equipment to make sure it is clean prior to use of this product.
3. After adding **ROYALTAC-M** to the spray tank, start up and maintain good agitation of the diluted solution.
4. Do not mix **ROYALTAC-M** with other tobacco chemicals, except as specified in this label (see TANK MIX APPLICATIONS).
5. Do not apply this product to wet plants, such as immediately after heavy rain or when there is a heavy dew.
6. Do not apply this product on windy days, because the spray solution may not be deposited uniformly on the leaf axils and sucker buds.
7. Do not apply this product during the middle of the day in very hot weather, because leaf burn may result. Injury may also result if the product is sprayed on the underside of the tobacco leaf, such as when the wind is strong enough to turn over the top leaves.

### **STORAGE AND DISPOSAL**

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

**PESTICIDE STORAGE:** Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight.

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

**EQUIPMENT CLEANING:** This product is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water. Do not contaminate water when disposing of equipment washwater or rinsate.

#### **CONTAINER DISPOSAL**

##### **Nonrefillable Container**

**Plastic Containers:** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer container for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse as follows:** For containers small enough to shake: Empty the remaining contents into application or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Recycling:** Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or [www.acrecycle.org](http://www.acrecycle.org).

**IMPORTANT NOTICE -** To the extent consistent with applicable law, 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 for this product, contrary to label instructions, or under conditions not reasonably foreseeable to seller, and to the extent consistent with applicable law, the buyer assumes the risk of any such use.

ROYALTAC and MH-30 are registered trademarks of MacDermid Agricultural Solutions, Inc.

©2016 MacDermid Agricultural Solutions, Inc.

# Royaltac-M

sucker control

Contact Sucker Control on Tobacco

ACTIVE INGREDIENTS:	(% by weight)
octanol (C <sub>8</sub> )	.36.2%*
decanol (C <sub>10</sub> )	.48.2%*
related compounds (dodecanol – C <sub>12</sub> )	.00.3%*
<b>OTHER INGREDIENTS:</b>	<b>.15.3%</b>
<b>Total:</b>	<b>100.0%</b>

\*Contains 2.57 lb. octanol, 3.43 lb. decanol and 0.02 lb. dodecanol per gallon

\*Contains 308 grams octanol, 411 grams decanol and 3 grams dodecanol per liter

## KEEP OUT OF REACH OF CHILDREN DANGER / PELIGRO

Si usted no entiende la etiqueta, busque a alguien para que se la explique a usted en detalle.

(If you do not understand this label, find someone to explain it to you in detail.)

For Product Use Information Call 1-866-761-9397

FIRST AID	
<b>IF IN EYES:</b>	<ul style="list-style-type: none"> <li>Hold eye open and rinse slowly and gently with water for 15 to 20 minutes.</li> <li>Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>IF INHALED:</b>	<ul style="list-style-type: none"> <li>Move person to fresh air.</li> <li>If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible.</li> <li>Call a poison control center or doctor for further treatment advice.</li> </ul>
<b>IF ON SKIN OR ON CLOTHING</b>	<ul style="list-style-type: none"> <li>Take off contaminated clothing.</li> <li>Rinse skin immediately with plenty of water for 15 to 20 minutes.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>
<b>NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage.</b>	
<b>EMERGENCY ASSISTANCE:</b> Have the product container or label with you when calling a poison control center or doctor, or going for treatment: <b>FOR 24-HOUR MEDICAL EMERGENCY ASSISTANCE CALL</b> <b>PROPHARMA: 1-866-303-6952 or +1-651-603-3432.</b> <b>FOR 24-HOUR CHEMICAL EMERGENCY (Spills, leaks, fire, exposure or accident) CALL</b> <b>CHEMTREC: 1-800-424-9300 or +1-703-527-3887.</b>	

## PRECAUTIONARY STATEMENTS

### HAZARDS TO HUMANS AND DOMESTIC ANIMALS

**DANGER: Corrosive. Causes irreversible eye damage.** Do not get in eyes or on clothing. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

### ENVIRONMENTAL HAZARDS

Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark.

Do not contaminate water when disposing of equipment washwater or rinsate.

## STORAGE AND DISPOSAL

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

**PESTICIDE STORAGE:** Store in original container only. After partial use, replace lid and close tightly. Store in a secure place that is temperate, dry and out of direct sunlight.

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

**EQUIPMENT CLEANING:** This product is not corrosive to spray equipment. Following applications, all spray equipment should be thoroughly rinsed with water. Do not contaminate water when disposing of equipment washwater or rinsate.

### CONTAINER DISPOSAL

#### Nonrefillable Container

**Plastic Containers:** Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Then offer container for recycling, reconditioning, or puncture and dispose of in a sanitary landfill, by incineration, or if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Triple rinse as follows:** For containers small enough to shake: Empty the remaining contents into application or a mix tank and drain for 10 seconds after the flow begins to drip. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times.

**Recycling:** Once cleaned, some agricultural plastic pesticide containers can be taken to a container collection site or picked up for recycling. To find the nearest site, contact your chemical dealer or manufacturer, or contact the Ag Container Recycling Council (ACRC) at 1-877-952-2272 (toll free) or [www.acrecycle.org](http://www.acrecycle.org).

See inside booklet for additional Precautionary Statements, and Directions for Use

ROYALTAC and MH-30 are registered trademarks of MacDermid Agricultural Solutions, Inc.

EPA REG. NO. 400-451

(BO) EPA Est. No. 037429-GA-002

(CJ) EPA Est. No. 070815-GA-001

(MK) EPA Est. No. 089332-GA-002

The EPA Establishment Number is identified by the circled letters that match the first two letters in the batch number.  
011/051911  
505625-A

Manufactured for:

**MACDERMID AGRICULTURAL SOLUTIONS, INC**

245 Freight Street

Waterbury, CT 06702-1818

**NET CONTENTS: 2 GALLONS**