

Royaltac[®]

Contact Sucker Control on Tobacco

Net
Contents
3
gallons

Active Ingredient: (% by weight)	
n-decanol (CAS No. 112-30-1)	78.4%*
Other Ingredients:	21.6%
Total:.....	100.0%

* Contains 5.7 pounds of active ingredient per gallon.

* Contains 684 grams of active ingredient 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 the label, find someone to explain it to you in detail.)

**First Aid, Precautionary Statements and
Directions for Use are inside this booklet.**

EPA REG. NO. 400-135

BT EPA EST NO. 037429-GA-001

BO EPA EST NO. 037429-GA-002

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

010/051911

SAP#505621 010 (1215)

Manufactured for:
MacDermid Agricultural Solutions, Inc.
245 Freight Street
Waterbury, CT 06702-1818



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

24 HOUR EMERGENCY PHONE 1-866-928-0789

For PRODUCT USE INFORMATION: Call 1-866-761-9397

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS DANGER

Causes irreversible eye damage. Harmful if swallowed. Harmful if absorbed through skin. Do not get in eyes or on clothing. Avoid contact with skin. 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 made of 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, 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

ROYALTAC® is a contact tobacco sucker control agent for use on all types of tobacco. Direct contact of this product 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 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 $\frac{2}{3}$ 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 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 as directed, and then topping within a week.

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

RATE OF APPLICATION

Flue-Cured Tobacco

Mix 1.5 gallon of ROYALTAC in 50 gallons of water. Apply 50 gallons of the diluted mixture per acre. If sucker growth is vigorous or if the development of the tobacco in the field is irregular, second and third applications of ROYALTAC, at 3 to 5 day intervals, may be needed. For these additional applications, use 1.5 gallon of this product per acre in 50 gallons of water.

Seven to 10 days after the last ROYALTAC application, apply ROYAL MH-30® (or other maleic hydrazide systemic sucker control agent) at the labeled rate and timing.

Air-Cured (burley, Maryland or cigar) Tobacco

Mix 2.0 gallons of ROYALTAC in 50 gallons of water. Apply 40 to 60 gallons of diluted mixture per acre. For hand sprayers, mix 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 2.75 gallons of ROYALTAC in 50 gallons of water. Apply 40 to 60 gallons of diluted mixture per acre. For hand sprayers, mix 7 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, Maryland, or cigar) and Dark Tobacco

ROYALTAC 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 application may be made 5 to 7 days after the first ROYALTAC 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 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 1.5 gallon of ROYALTAC 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. Inspect spray equipment to make sure it is clean prior to use of this product.
2. After adding ROYALTAC to the spray tank, start up and maintain good agitation of the diluted solution.
3. Applying ROYALTAC at concentrations higher than recommended may cause leaf damage.
4. Do not mix ROYALTAC 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 mornings after 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 or 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: Pesticide wastes are acutely hazardous. 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 of guidance.

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 $\frac{1}{4}$ 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.

Refillable Container

Mini-Bulk Containers: Refill this container with pesticide only. Do not reuse this container for any other purpose. Cleaning the container before final disposal is the responsibility of the person disposing of the container. Cleaning before refilling is the responsibility of the refiller.

To clean the container before final disposal, empty the remaining contents from this container into application equipment or mix tank. Fill the container about 10 percent full with water. Agitate vigorously or recirculate water with the pump for 2 minutes. Pour or pump rinsate into application equipment or rinsate collection system. Repeat this procedure two more times.

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.

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AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40CFR Part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

Additional Precautionary Statements and full Directions for Use are in the booklet attached to this container. If booklet is missing, contact the company or an authorized dealer.

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Manufactured by:
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Solutions, Inc.
245 Freight Street
Waterbury, CT 06702-1818

NET CONTENTS: 3 Gallons