

# **ROOT AND TUBER - IRRIGATION**

## General Information

### GENERAL INFORMATION

REGALIA PTO is an extract from the plant Reynoutria spp. for use on edible crops, ornamental plants and turf. REGALIA PTO applied to actively growing plants (see DIRECTIONS FOR USE) will improve plant health, and will help make the treated portions resistant to certain plant diseases. Use REGALIA PTO as a preventative rather than a curative application. Apply prior to disease infestation to protect the growing leaf tissue. See specific information for diseases controlled and use rates on edible crops, ornamental plants and turf.

REGALIA PTO can be used as a plant dip, soil drench, or applied through drip irrigation to control or suppress certain soilborne diseases and to promote healthy root growth.

### MODE OF ACTION

The extract obtained from Reynoutria spp. plant material contains active chemical compounds. The extract, when applied to the host plant, increases the plant's defense system due to a five-fold increase in phenolics and antioxidants, and strengthens cell walls. This induced resistance against important diseases is not systemic, but provides some translaminar protection. Repeat foliar applications at 7-14-day intervals to maintain induction and to protect new plant growth. The resistance induction takes place within one to two days.

Use REGALIA PTO, therefore, as a preventative treatment.

### AERIAL APPLICATION INSTRUCTIONS

Apply REGALIA PTO by aerial application to the plants listed at the rate of 1 quart per acre in a minimum of 5 gallons of water per acre unless specified differently in the APPLICATION RATES section. Increasing the amount of water applied per acre may improve product performance. Follow all instructions to reduce aerial drift.

## PRE-PLANT DIP USE DIRECTIONS

REGALIA PTO can be applied as a pre-plant dip for improved plant health and suppression of certain soil-borne diseases.

Apply REGALIA PTO in 1–3 quarts product per 100 gallons of water as a pre-plant dip immediately prior to transplanting, unless specified differently in the APPLICATION RATES section.

## SOIL TREATMENT USE DIRECTIONS

REGALIA PTO can be applied by soil drench to improve plant health and to protect against certain soil-borne diseases.

In general, REGALIA PTO can be applied by the following methods, unless specified differently in the APPLICATION RATES section:

### Soil Drench Applications:

Apply REGALIA PTO at a concentration of 1–3 quarts per 100 gallons of water, and at a sufficient rate to thoroughly soak the growing media and root zone. Make an initial application of REGALIA PTO during or shortly after transplant to reduce transplant shock, suppress soil-borne diseases and improve root growth. Multiple drench applications can be made on a 10–14-day interval.

### In-Furrow Applications:

At planting, apply REGALIA PTO as an in-furrow spray at the rate of 1–4 quarts per acre or 2.2–8.8 fluid ounces per 1000 feet of row according to the chart below. Apply REGALIA PTO in 5 to 15 gallons of water so as the spray is directed into the seed furrow just before the seeds are covered.

See label for the In-Furrow Application Rates per row spacing.

## APPLICATION RATES

REGALIA PTO used as specified will improve plant health, and induce the defense system of the treated plants listed towards the diseases specified below.

The general recommended use rate for REGALIA PTO applied alone or as an alternate spray is 2–4 quarts per 100 gallons of water (0.5–1.0% v/v dilution of

REGALIA PTO) applied at 50–100 gallons of water per acre. When tank mixed with another fungicide, the use rate for REGALIA PTO is 1–4 quarts in 100 gallons of water applied at 50–100 gallons of water per acre.

Use higher water volumes with larger sized crops and extensive foliage in order to secure thorough coverage. See specific application recommendations for additional details.

For greenhouse application, the recommended use rate for REGALIA PTO is 2–4 quarts in 100 gallons of water (0.5–1.0% v/v dilution of REGALIA PTO) sprayed until just before point of runoff. When tank mixed with another fungicide, the use rate for REGALIA PTO is 1–4 quarts in 100 gallons of water. Repeat at 7–14-day intervals as needed. See specific application recommendations for additional details.

This product may be used to control certain diseases of container, bench, flat, plug, bed, or field-grown ornamentals and edible crops in greenhouses, shade-houses, outdoor nurseries, retail nurseries, and other landscape areas.

For greenhouse application on the crops and diseases listed, the recommended use rate for REGALIA PTO is 2–4 quarts in 100 gallons of water (0.5–1.0% v/v dilution for REGALIA PTO) sprayed until just before point of runoff. When tank mixed with another fungicide, the use rate for REGALIA PTO is 1–4 quarts in 100 gallons of water. Repeat at 7–14-day intervals as needed. See specific application recommendations for each crop for additional details.

## Limitations, Restrictions, and Exceptions

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For chemigation applications for improved plant growth and suppression of soilborne diseases, apply this product through drip irrigation at the rate of 1–4 quarts per acre immediately after transplant and at 14-day intervals or begin 14 days after transplant when plant dip or soil drench applications are used.

#### Method

#### [Irrigation](#)

#### Rates

#### [field rates 0](#)

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Restricted Entry Interval

4 hours

Timings

[After transplant and at 14-day intervals or begin 14 days after transplant.](#)