

CANN-CARE™



ROTSTAR

DISEASE CONTROL CONCENTRATE

A plant extract to boost the plants' natural defense mechanisms against certain fungal and bacterial diseases.

EPA Reg. No. 92629-2

EPA Est. No. 92629-OR-1



Powdery Mildew



Gray Mold



Gummy Stem Blight



Rust



Bacterial Spot



Active Ingredients:	%by Wt
Extract of Reynoutria sachalinensis.....	5%
Other Ingredients.....	95%
Total.....	100.0%

Net Contents:
One Quart (32 f. oz.)

WARNING KEEP OUT OF REACH OF CHILDREN

Suitable for organic farming practices

WARNING

IF STABED

Hold eye open and rinse slowly and gently with water for 15–20 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.

Call 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.

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

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.

Have the product container or label with you when calling a poison control center or doctor, or if going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

IF INEYES

IF SWALLOWED:

IF ON SKIN OR CLOTHING:

IF INHALED:

HOTLINE NUMBER

CANN-CARE™

ROTSTAR

DISEASE CONTROL CONCENTRATE

SEE ATTACHED BOOKLET FOR COMPLETE PRECAUTIONARY STATEMENTS, FIRST AID, DIRECTIONS FOR USE, AND STORAGE & DISPOSAL. READ ENTIRE LABEL. USE STRICTLY IN ACCORDANCE WITH PRECAUTIONARY STATEMENTS AND DIRECTIONS, AND WITH APPLICABLE STATE AND FEDERAL REGULATIONS.

Cann-Care Company
417 Mace Blvd. J236
Davis, CA 95618
www.cann-care.com
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GENERAL INFORMATION

RotSTAR® is an organic extract from the plant *Reynoutria sachalinensis* for use on ornamental plants and edible crops. RotSTAR® applied to actively growing plants (see directions for use) will help make the treated leaf area resistant to certain plant diseases. Use RotSTAR® as a preventative rather than a curative application. Apply prior to disease infestation to protect the growing leaf tissue. The principal diseases controlled in treated plants are Powdery Mildew, Gray Mold, Rust*, Bacterial Canker*, Bacterial Blast*, Bacterial Leaf Spot, Target Spot, and Bacterial Speck*. See specific information under use directions for Ornamental Plants and Edible Crops.

*Not for use in California



READ ENTIRE LABEL BEFORE EACH USE. OBSERVE ALL PRECAUTIONS AND FOLLOW DIRECTIONS CAREFULLY.

WARNING: FIRST AID STATEMENT

IF IN EYES:	Hold eye open and rinse slowly and gently with water for 15-20 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 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 CLOTHING:	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. 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 mouth to mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

WARNING: Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear protective eyewear (goggles, face shield, or safety glasses). Wash thoroughly with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR Part170. 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 exemptions pertaining to the statements on this label about personal protective equipment (PPE) and the restricted entry interval (REI). 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 twenty-four (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
- Waterproof gloves
- Shoes plus socks
- Protective eyewear



Manufactured for
Cann-Care Company
417 Mace Blvd J236
Davis, CA 95618

www.cann-care.com

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PATENT PENDING

CANN-CARE
Squeeze 'n Measure



Controls Root Rot & Mildew
Alternate Brand Names: RotSTAR® Concentrate, RotSTAR® Bioprotectant Concentrate, RotSTAR® Disease Control Concentrate
Makes 16 gallons drench or spray
A plant extract to boost the plants' natural defense mechanisms against certain fungal and bacterial diseases.
16 fluid Ounces

Active Ingredients: % by Wt

Extract of *Reynoutria sachalinensis*.....5%

Other Ingredients.....95%

Total.....100.0%

KEEP OUT OF REACH OF CHILDREN

WARNING

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EPA Est. No. 92629-OR-1

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long sleeved shirt and long pants + **Water Proof Gloves**
- Shoes plus socks + **Protective eyewear**

Follow manufacturer's instructions for cleaning and maintaining PPE. If no such instructions for washables, use detergents and hot water. Keep and wash PPE separately from other laundry.

User Safety Recommendations

Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

For terrestrial uses: 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 wash water or rinsate.

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product 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 State or Tribal agency responsible for pesticide regulation.

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Use RotSTAR® as a preventative rather than a curative application. Apply prior to disease infestation to protect the growing leaf tissue. The principal diseases controlled in treated plants are Powdery Mildew Gray Mold, Rust*, Bacterial Canker*, Bacterial Blast*, Bacterial Leaf Spot, Target Spot, and Bacterial Speck*. See specific information under use directions for Ornamental Plants and Edible Crops. ***Not for use in California**

MODE OF ACTION

The extract obtained from ground-up *R. sachalinensis* plant material contains the active chemical substances. These compounds, when applied to the host plant, raise their natural defense system, based on a five-fold increase in phenolics. This induced resistance against some important diseases is not systemic, but there is some translaminal protection. This means that new plant growth needs to be protected, and repeat applications at 7-14 day intervals are recommended. The resistance induction takes place in one to two days. Light is required. Use RotSTAR® therefore, as a preventative treatment.

rotSTAR® is a registered trademark of Cann-Care Company. RotSTAR® 20 is a registered trademark of Mallico Company. Tween® 20 is a registered trademark of Mallico Company. Latron® B-1956 is a registered trademark of Dow AgroSciences. Nu-Film® P is a registered trademark of Miller Chemical.

US Patent No. _____

WARRANTY Other than as indicated on this product label, the seller makes no warranty, express or implied, of merchantability, fitness or otherwise concerning use of this product. The user assumes all risks of use, storage or handling that are not in strict accordance with the accompanying directions.

Do not contaminate water when disposing of equipment washwater or rinsate. Pesticide wastes may be toxic. Improper disposal of unused pesticide, washwater or rinsate water is a violation of federal law.

CONTAINER DISPOSAL: Non-refillable container. Do not reuse or refill this container. Triple rinse as (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment 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 for later use or disposal. Drain for 10 seconds after the flow begins to drip. Repeat this procedure two more times. Then offer for recycling if available, or puncture and dispose of in a sanitary landfill or by incineration. Do not burn unless allowed by state and local ordinances.

INTEGRATED PEST MANAGEMENT (IPM)

Although only some conventional fungicides have been tested in an IPM regime with RotSTAR®, results have been very satisfactory. One of the major objectives of IPM has been to reduce the probability of disease resistance development to a particular active ingredient.

The alternate use of RotSTAR® (1 - 2 sprays) followed by a conventional, registered fungicide (1 - 2 sprays) has been successfully used in many crops. In addition, the uses of tank mixes with a conventional fungicide have been successful.

Follow label instructions of the particular registered product, not to exceed amounts or treatment intervals as recommended on the label.

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

PESTICIDE STORAGE: Store in a cool, dry place.

Avoid freezing.

PESTICIDE DISPOSAL: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).

STORAGE AND DISPOSAL

RESTRICTIONS AND LIMITATIONS

Do not apply through any type of irrigation equipment. Do not apply more than 100 gallons of a 1% spray solution per acre. Do not apply more than six applications per year. Do not apply with phytotoxic oil

Concentrations of 1% RotSTAR® or more applied to very small, tender plants may produce plant injury.

Do not use on Gerbera and Lisianthus plugs. Wait for two weeks after transplanting.

MIXING INSTRUCTIONS SHAKE WELL PRIOR TO USE

RotSTAR® is a suspension concentrate (SC) consisting of certain natural ingredients. RotSTAR® is an extract from Giant Knotweed (REYSA) that contains liquid and solid portions of the plant extract. Both are important for the resistance induction of the treated plants. Some of these ingredients tend to settle out after standing for an extended time in the container. **They need to be shaken vigorously to be re-suspended before using.** Use 50-mesh nozzle screens or larger.

Only the treated green tissues develop resistance, therefore coverage of foliage is important, although there is some translaminar movement. The general use rate recommended is 0.5% v/v of RotSTAR® concentrate in 50-100 gallons of water per acre. The larger sized crops and foliage need the larger volume to secure thorough coverage.

If mechanical mixing is available when preparing the spray solution, keep the agitators running. Apply with an anionic wetting agent such as Tween® 20 or Latron B-1956® at 0.02% v/v of the final water volume. RotSTAR® can be tank mixed in the spray tank with pesticides and surfactants to enhance disease control. Do not exceed recommended application rates. RotSTAR® cannot be mixed with another product with a prohibition against mixing. Use of the tank mix must be in accordance with the more restrictive label limitations and precautions.

Compatibility: Do not combine RotSTAR® in the spray tank with pesticides, surfactants, or fertilizers if there has been no previous experience or use of the combination to show it is physically compatible, effective and non-injurious under your use conditions.

RotSTAR® is compatible with many commonly used pesticides, fertilizers, adjuvants and surfactants but has not been evaluated with all of these. To ensure compatibility of the tank mix combinations they should be evaluated prior to use, as follows: Using a suitable container add the proportional amounts of product to water. Add wettable powders first, then water dispersible granules, then liquid flowables and lastly, emulsifiable concentrates. Mix thoroughly and let stand for at least five minutes. If the combination stays mixed or can be remixed, it is physically compatible. Test the mix on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of the application.

ORNAMENTAL PLANTS

The following plant species have been treated with RotSTAR®, either for the purpose of rendering them more vigorous or to prevent disease. The disease most prominently controlled is powdery mildew (*Oidium* spp.), and there are also reports of gray mold (*Botrytis cinerea*) and rust (*Puccinia antirrhini*) control. Plants investigated:

- Begonias
- Gerbera
- Poinsettias
- Snapdragons
- Crape myrtle
- Lisianthus
- Roses
- Zinnias
- Freesias
- Petunias
- Salvias

Since it is not possible to test all ornamental species or varieties grown in the greenhouse, it is recommended that the user first test RotSTAR® on a few plants prior to large-scale usage.

Application Rates and Timing for Ornamental Plants

Mix RotSTAR® bioprotectant concentrate with tap water at a concentration of 0.5% v/v (2 qts RotSTAR®/100 gals water). Rates for trial purposes should range from 0.25% - 1% v/v. Begin applications preventatively (before disease symptoms become visible) at the 4 - 6 leaf stage and treat at 7-14 day intervals as needed prior to sale or harvest. Spray water volumes should be between 50-100 gallons/acre. Spray until runoff. Make no more than six applications for annual ornamentals.

EDIBLE CROPS

RotSTAR® bioprotectant used as specified and preventatively will increase the natural defense system of the treated plants listed below towards the diseases specified below. **LIMITATIONS:** Do not apply more than six applications per crop. Do not apply more than two quarts of RotSTAR® per acre seven days prior to harvest.

APPLICATION RATES AND TIMING FOR EDIBLE CROPS

Grapes - Powdery mildew (*Uncinula necator*), and Gray mold (*Botrytis cinerea*) Apply RotSTAR® preventatively at 0.5% v/v in 50-100 gallons of water on the crop when the first disease symptoms are visible, or when disease pressure is high, and adding 0.02% v/v of a wetting agent. Repeat applications in 7-14 day intervals depending upon crop growth and disease pressure. The shorter interval is recommended for greenhouse cucurbits under high disease conditions.

Cucurbits: Such as, Cantaloupe, Cucumber, Pumpkin, Zucchini, Watermelon - Powdery mildew (*Sphaerotheca fuliginea*, *Erysiphe cichoracearum*), Downy mildew (*Pseudoperonospora cubensis*), Gummy stem blight (*Didymella bryoniae*)

Apply RotSTAR® preventatively at 0.5% v/v in 50-100 gallons of water on the crop when the first symptoms of powdery mildew are visible, or when disease pressure is high, and adding 0.02% v/v of a wetting agent. Repeat applications in 7-14 day intervals depending upon crop growth and disease pressure. The shorter interval is recommended for greenhouse cucurbits under high disease conditions.

Strawberries - Powdery mildew (*Sphaerotheca* spp.) Apply RotSTAR® at a concentration of 0.5% - 1% v/v in 100 gallons of water at 7 - 14 day spray intervals as soon as first symptoms appear, adding 0.02% v/v of a wetting agent.

Walnuts - Bacterial blight (*Xanthomonas campestris*) For the preventative control of bacterial blight apply 0.5% - 1%

v/v RotSTAR® in 50-100 gallons of water and add a surfactant such as Nu-Film-P® at 0.02% v/v. Repeat applications at 7 - 10 day intervals.

Lettuce - Powdery mildew (*Erysiphe cichoracearum*) Apply RotSTAR® preventatively at 0.5% v/v in 50 gallons of water, adding 0.02% v/v of a wetting agent such as Tween 20®. Repeat applications at 10 - 14 day intervals.

Peppers- Bacterial blight (*Xanthomonas campestris*), Powdery mildew, Bacterial leaf spot, Target spot, Tomato late blight, Early blight of tomato, Bacterial canker*, Bacterial speck*, Grey mold*

For preventative control apply 0.5%-1% v/v RotSTAR® in 50-100 gallons of water and add a surfactant such as Nu-Film® P at 0.02% v/v. Repeat applications at 7-10 day intervals.

Tomato - Powdery mildew, Bacterial blight, Bacterial leaf spot, Target spot, Grey mold, Tomato late blight, Early blight of tomato, Bacterial canker*, Bacterial speck*

For preventative control apply 0.5%-1% v/v RotSTAR® in 50-100 gallons of water and add a surfactant such as Nu-Film® P at 0.02% v/v. Repeat applications at 7-10 day intervals.

Citrus*: Such as, Orange, Grapefruit, Lemon, Tangerine, Tangelo, Pummelo and other Citrus Crops -Bacterial canker (*Xanthomonas* spp.), Bacterial blast (*Pseudomonas syringae*), Greasy spot (*Mycosphaerella citri*) Apply 0.5%-1% v/v Regalia SC in 50-100 gallons of water. For improved performance use RotSTAR® in a tank mix or rotational program with other registered fungicides. Repeat applications at 7-14 day intervals . *Not for use in California