

69592-16

05/10/2007

115



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

EPA Reg. Number: 69592-16

Date of Issuance:

Term of Issuance: Unconditional

Name of Pesticide Product: Serenade Garden Disease Control Ready to Use

U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Biopesticides and Pollution Prevention Division (7511P)
1200 Pennsylvania Avenue NW
Washington, DC 20460

NOTICE OF PESTICIDE REGISTRATION

X Registration
Reregistration

(under FIFRA, as amended)

Name and Address of Registrant (include ZIP Code):

AgraQuest, Inc.
1530 Drew Avenue
Davis, CA 95616-6320

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Biopesticides and Pollution Prevention Division prior to use of the label in commerce. In any correspondence on this product always refer to the above EPA registration number.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act. The acceptance of any name in connection with the registration of a product under this Act is not to be construed as giving the registrant a right to exclusive use of the name or to its use if it has been covered by others.

This registration does not eliminate the need for continual reassessment of the pesticide. If EPA determines at any time, that additional data are required to maintain in effect an existing registration, the Agency will require submission of such data under section 3(c)(2)(B) of FIFRA.

This product is registered in accordance with FIFRA section 3(c)(5) and is subject to the following terms and conditions

Submit/cite all data required for registration of your product under FIFRA § 3(c)(5) when the Agency requires all registrants of similar products to submit such data.

2. Submit two (2) copies of the revised final printed labeling before you release the product for shipment. Refer to attached Type Size Requirements for final printed labeling.

A stamped copy of the label is enclosed for your records.

Signature of Approving Official:

W. Michael McDIST

Date:

5-10-07

Janet L. Andersen, Ph.D., Director

Biopesticides and Pollution Prevention Division

Table with columns for SYMBOL, SURNAME, DATE, and CONCURRENTS. Includes handwritten entries for 7511P, 5/4/07, and 5/7/07.

2/5

ACCEPTED
MAY 10 2007

Net contents: [20 fluid ounces OR 28 fluid ounces] OR 32 fluid ounces

Under the Federal Insecticide, Fungicide, and Rodenticide Act, as amended, for the pesticide registered under EPA Reg. No. 69592-16

Serenade[®] Garden[™] Disease Control Ready to Use

[Alternate Names for Turf Label when sold for hose end sprayers:]

- 'Serenade Garden Lawn (or Turf) Disease Control - Ready to Spray' and
- 'Serenade Garden Disease Control for Lawns (or Turf) - Ready to Spray'
- [Optional/Alternate Statements:]
- [For Home and Garden Use]
- [For Home, Garden and Lawn (Turf) Use]

- [Optional/Alternate Statements:]
- ["NOP Logo: For Organic Gardening"]
- ["NOP Logo: Can Be Used for Organic Gardening"]
- ["NOP Logo: For Organic Lawn Care"]
- [Optional Claims:]
- [Attacks over 40 diseases]
- [Attacks both fungal & bacterial diseases]
- [Apply any time of day]
- [Will not burn or injure leaves, lawns (turf)]
- [Fungicide (or Biofungicide) that attacks harmful garden and lawn diseases]
- [Use on Roses, Vegetables, Fruits, Flowering Plants, Trees, Shrubs and Lawns (Turf)]
- [Controls Bacterial Spot, Powdery Mildew, Rust, Grey Mold, Leaf Blight, Scab]
- [Same active ingredient used by farmers]
- [Optional Claims for Lawn and Turf Label:]
- [Prevents and controls harmful (major) lawn diseases (including brown patch, dollar spot)]
- [Controls Brown Patch, dollar spot and other common lawn diseases]
- [Use anytime on all lawns to prevent and control major lawn diseases]
- [Promotes healthy disease-free lawns]
- [Same active ingredient used on golf courses]
- [Promotes Greener, Healthier Lawns]

ACTIVE INGREDIENT

QST 713 strain of *Bacillus subtilis* 0.074%
 INERT INGREDIENTS 99.926%
 Total 100.00%
 Contains a minimum of 1 x 10⁸ CFU/g

EPA Reg. No. 69592-16
 EPA Est. No.:

1	2	3	4	5
69592-	67545-	66728-	37429-	69592-
MEX-1	AZ-1	GA-2	GA-2	CA-1

[Superscript corresponds to last digit of lot number stamped on container]

U.S. Patent Nos. 6,060,051, 6,103,228, 6,291,426, and 6,417,163 on QST 713 strain of *Bacillus subtilis*

Net contents: [20 fluid ounces OR 28 fluid ounces] OR 32 fluid ounces

KEEP OUT OF REACH OF CHILDREN

CAUTION

[For smaller container sizes:]
 [See attached booklet for First Aid Statements.]
 [Peel back tab for First Aid and Precautionary Statements and Directions for Use.]

PRECAUTIONARY STATEMENTS-- Home and Garden
HAZARDS TO HUMANS & DOMESTIC ANIMALS
CAUTION

Harmful if inhaled. Avoid breathing spray mist. Remove contaminated clothing and wash clothing before reuse.

As a general precaution, when exposed to a living microbial product such as this, wear a dust particle mask when applying this product.

FIRST AID

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 doctor or poison control center for further treatment advice. Have the product label with you when calling a doctor or poison control center.

ENVIRONMENTAL HAZARDS - Home and Garden

Do not apply directly to water. Do not contaminate water when disposing of equipment wash waters or rinsate.

DIRECTIONS FOR USE - Home and Garden

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

GENERAL USE INFORMATION - Home and Garden

Serenade Garden Disease Control Ready To Use (RTU) [Alternate Statement: is a broad spectrum, preventative biofungicide recommended for the control or suppression of many important plant diseases and] [Alternate Statement: effectively controls or prevents a wide range of important fungal and bacterial plant diseases and] [Serenade Garden Disease Control Ready To Use] may be used on roses, vegetables, fruits, nuts, flowers, houseplants, foliage, trees, shrubs, lawns, turf, sod, and ornamental turf [located in residential landscapes][located in residential greenhouses] [commercial landscapes] [commercial interior scapes].

[Serenade Garden Disease Control Ready To Use may be applied any time of day, in full sun and high temperatures, without stressing or burning foliage.]

**APPLICATION INSTRUCTIONS –
Home and Garden**

Shake well before using. Spray leaves, stems and new shoots to runoff providing complete coverage of the entire plant. For best results, treat prior to foliar disease development or at the first sign of foliar disease infection. Repeat at 7-day intervals or as needed. [Under conditions of high disease pressure] When environmental conditions favor rapid disease development (high humidity, excessive rain, extreme moisture condition, etc.) spray more often [Alternate: shorten the spray interval]. Do not water foliage within 4 hours of application.

Serenade Garden Disease Control Ready To Use can be applied up to and including the day of harvest.

[SERENADE GARDEN DISEASE CONTROL READY TO USE] MAY BE USED ON [THE FOLLOWING]:
[Alternate: VEGETABLES, FRUIT, NUTS, AND ORNAMENTAL PLANTS | [Alternate: PLANTS, CROPS, SITES]

HOME and GARDEN [VEGETABLES, FRUITS AND NUTS] PLANTS:

- Artichoke, Asparagus,**
- Berries** (Blueberries, Blackberry, Raspberry, Loganberry, Huckleberry, Cranberry, Gooseberry, Elderberry, Currant, Caneberry, and other berry crops)
- Brassica** (Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi and other brassica crops)
- Bulb Vegetables** (Onion, Garlic, Shallots and other bulb vegetables)
- Citrus** (Orange, Grapefruit, Lemon, Tangerine, Tangelo, Pummelo and other citrus crops)
- Cucurbits** (Cucumber, Cantaloupe, Melon, Muskmelon, Squash, Watermelon and other cucurbit crops)
- Fruiting Vegetables** (Pepper, Tomato, Eggplant and other fruiting vegetables)
- Grape, Herbs/ Spices, Hop**
- Leafy Vegetables** (Lettuce, Celery, Spinach, Parsley, Radicchio and other leafy vegetable crops)
- Legumes/vegetables** (Beans, Green beans, Snap beans, Shell beans, Dry Beans, Garbanzo beans, Lima beans, Peas, Chick peas, Split peas, Lentils and other legume/ vegetable crops)
- Mango, Mint, Olive, Papaya, Peanuts,**

Pome Fruit (Apple, Crabapple, Pear, Quince, Mayhaw and other pome fruit)

Root / Tuber (Carrot, Potato, Sweet Potato, Beets, Ginger, Horseradish, Radish, Ginseng, Turnip and other root/ tuber crops)

Roses

Stone Fruit (Apricot, Cherry, Nectarine, Peach, Plum, Prune, and other stone fruit crops)
Strawberry, Sweet Corn, Tobacco, Watercress,

Tree Nut (Almond, Pistachio, Pecan, Walnut, Filberts, Chestnut, Cashew, Beechnut, Butternut and other tree nut crops)

GREENHOUSE PLANTS:

Brassica (Broccoli, Cabbage, Cauliflower, Brussels Sprouts, Collards, Kale, Mustard Greens, Kohlrabi and other brassica crops)

Bulb Vegetables (Onion, Garlic, Shallots and other bulb vegetables)

Cucurbits (Cucumber, Cantaloupe, Melon, Muskmelon, Squash, Watermelon and other cucurbits)

Fruiting Vegetables (Pepper, Tomato, Eggplant and other fruiting vegetables)

Herbs/ Spices

Leafy Vegetables (Lettuce, Celery, Spinach, Parsley, Radicchio, and other leafy vegetables)

Root / Tuber (Carrot, Potato, Sweet Potato, Beets, Ginger, Horseradish, Radish, Ginseng, Turnip and other root/ tuber crops)

Strawberry

ORNAMENTALS, TREES, SHRUBS, FLOWERING PLANTS, TROPICAL PLANTS:

PLANTS EVALUATED FOR PHYTOTOXICITY

Annual and Perennial Flowering Plants:		
Alyssum	Asters	Azalea
Begonia	Calla lily	
Chrysanthemum	Cyclamen	Dianthus
Dwarf Bee-Balm	Easter lily	
Garden phlox	Geraniums	Gerbera
Golden star	Hydrangea	Impatiens
Kalanchoe	Linaria	Lisianthus
Lobelia	Marigolds	Orchids
Pansies	Petunia	Poinsettia
Portulaca	Penstemon	Roses
Salvia spp.	Snapdragons	Stock
Verbena spp.	Vines	Violas
Zinnias		

Tropical foliage:
Aglaonema Dieffenbachia
Dracaena spp. English Ivy

Hibiscus
Spathiphyllum

Trees and Shrubs:

Azalea	Boxwood
Crape myrtle	Dogwood
Jumbo azalea	Indian Hawthorn
Japanese maple	<i>Ligustrum japonicum</i>
Lilac	Loropetalum
Photinia	Rhododendron
<i>Rosaceae</i> spp.	Soft Touch Holly
Spirea.	

[Optional Statement; It is impossible to test all plants for phytotoxicity. To assure that the plants to be treated are not sensitive to the treatment, apply a small amount of the highest application rate of the product to a few leaves or the above ground portion of a plant and check within 3 days. Use product according to label directions.]

DISEASES CONTROLLED [OR SUPPRESSED] [OR PREVENTED] [BY SERENADE GARDEN DISEASE CONTROL READY TO USE] [ON VEGETABLES, FRUIT, NUTS, ORNAMENTAL PLANTS] [Alternate; ON PLANTS, CROPS, SITES]

- Anthraxnose -- *Colletotrichum* spp.
- Bacteria-*Erwinia* spp, *Pseudomonas* spp, *Xanthomonas* spp
- Bacterial Leaf Blight (*Xanthomonas campestris*)
- Bacterial Speck (*Pseudomonas syringae* pv. Tomato)
- Bacterial Spot (*Xanthomonas* spp.) - suppression
- Bean Rust** (*Uromyces appendiculatus*) – suppression
- Black Mold (*Alternaria alternata*)
- Black Root Rot/Black Crown Rot (*Alternaria* spp.)
- Black spot of rose -- *Diplocarpon rosea*
- Botrytis (*Botrytis* spp)
- Botrytis Leaf Blight (*Botrytis squamosa*)
- Botrytis Neck Rot (*Botrytis* spp.)
- Downy Mildew (*Bremia lactucae*, *Peronospora* spp., and *Plasmopara viticola*) - suppression
- Early Blight (*Alternaria solani*) – suppression
- Fire Blight (*Erwinia amylovora*) – suppression
- Gray Mold (*Botrytis cinerea*)
- Greasy spot (*Mycosphaerella citri*) - suppression
- Late Blight (*Phytophthora infestans*) – suppression

Leaf spots – (*Alternaria* spp, *Cercospora* spp, *Entomosporium* spp, *Helminthosporium* spp, *Myrothecium* spp, *Septoria* spp.)

Onion Downy Mildew (*Peronospora destructor*)

Onion Purple Blotch (*Alternaria porri*)

Phytophthora spp.

Pin Rot (*Alternaria/Xanthomonas* complex) - suppression

Powdery Mildew (*Uncinula necator*, *Erysiphe* spp., *Sphaerotheca* spp., *Oidiopsis taurica*, *Leveillula taurica*, *Podosphaera leucotricha*)

Powdery Mildew – *Erysiphe* spp, *Oidium* spp, *Podosphaera* spp, *Sphaerotheca* spp

Rust – *Puccinia* spp.

Scab (*Venturia* spp.) - suppression

Sclerotinia head and leaf drop (*Sclerotinia* spp.)

Sour Rot

Target Spot (*Corynespora cassiicola*)

Walnut Blight (*Xanthomonas campestris*)

White Mold (*Sclerotinia sclerotiorum*) – suppression

[SERENADE GARDEN DISEASE CONTROL READY TO USE] MAY BE USED ON LAWNS, TURF AND ORNAMENTAL TURF

LAWNS, TURF AND ORNAMENTAL TURF:
Bluegrass, Bentgrass, Bermudagrass, Dichondra, Fescue, Orchard grass, Poa Annua, St. Augustine, Ryegrass, Zoysia, Mixtures and other grasses or ornamental turf.

DISEASES CONTROLLED [OR SUPPRESSED] [OR PREVENTED] [BY SERENADE GARDEN DISEASE CONTROL READY TO USE] [ON LAWNS, TURF AND ORNAMENTAL TURF]

- Lawn and Turf Diseases:**
- Brown patch** (*Rhizoctonia solani*)
 - Dollar Spot** (*Lanzia* spp, *Moellerodiscus*, spp. formerly *Sclerotinia homeocarpa*)
 - Powdery Mildew** (*Erysiphe graminis*)
 - Rust** (*Puccinia* spp)
 - Anthraxnose** (*Colletotrichum graminicola*)

STORAGE AND DISPOSAL – Home and Garden

STORAGE: Store in original container only. [Alternate: in an area inaccessible to children] [or Alternate: out of reach of children]. Keep container closed when not in

use.

CONTAINER DISPOSAL:

[20-, 24-, 28- or 32-ounce bottle]

If empty: Do not reuse this container. Place in trash or offer for recycling if available.

If partly filled: Call your local solid waste agency for disposal instructions. Never place unused product down any indoor or outdoor drain.

Questions or Comments call 800-962-8980

www.agraquest.com

AgraQuest, Inc. 1530 Drew Avenue Davis, California 95618

CONDITIONS FOR SALE AND WARRANTY

Except to the extent prohibited by applicable law, AgraQuest offers this product with the following conditions: 1) buyers and users of this product assume the risk of any storage, handling or use contrary to AgraQuest's label and directions and 2) AgraQuest's liability shall in no case exceed the purchase price of the applicable AgraQuest product.

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