



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF CHEMICAL SAFETY  
AND POLLUTION PREVENTION

Ms. Sherry D. Heins  
Product Registration Manager  
Agraquest, Inc.  
1540 Drew Avenue  
Davis, CA 95618

JUN 06 2012

Re: Serenade Soil  
EPA Reg. No. 69592-12  
Submission dated 5/8/2012  
Decision No. 465059

Dear Ms. Heins:

The Agency has reviewed your request to amend the subject product registration. The amendment includes the following changes to the product's label:

- Addition of supplemental label for use on Legume Vegetables in California only for the alternate brand name product Serenade Soil (label code 040212), expiring on 10/02/2013; and
- Addition of supplemental label for use on Leafy Vegetables in California only for the alternate brand name product Serenade Soil (label code 041012), expiring on 10/10/2013.

The amendment referred to above, submitted in connection with registration under FIFRA section 3(c)(7)(A), is acceptable provided that you:

1. Submit and/or cite all data required for registration of your product under FIFRA section 3(c)(5) when the Agency requires all registrants of similar products to submit such data.
2. Submit two (2) copies of your final printed labeling before you release the product for shipment. Refer to the A-79 enclosure for a further description of a final printed label.

If these conditions are not complied with, then the registration will be subject to cancellation in accordance with FIFRA section 6(e). Your release for shipment of the product bearing the amended labeling constitutes acceptance of these conditions. A stamped copy of the label and A-79 are enclosed for your records. If you have questions, please contact Michael Glikes by phone at (703)305-6231 or by e-mail at [glikes.michael@epa.gov](mailto:glikes.michael@epa.gov).

Sincerely,

Sheryl K. Reilly, Ph.D.  
Chief, Microbial Pesticides Branch  
Biopesticides and Pollution Prevention  
Division (Mail Code 7511P)

2/5

**ACCEPTED**

JUN 06 2012

**SERENADE® SOIL**

EPA Reg. No. 69592-12

**SUPPLEMENTAL LABELING**

**For Use on Legumes in California Only**

**DIRECTIONS FOR USE**

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 69592-12

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.
- This labeling, which includes use on legumes and revised application instructions not previously printed on the container label, must be in the possession of the user at the time of pesticide application.
- Read the label affixed to the SERENADE SOIL container before applying.
- Use of SERENADE SOIL according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the SERENADE SOIL container.
- For the specified crops, this labeling supersedes the container label bearing AgraQuest's label code number AQ1334-001. This supplemental label is intended for use in California only.
- Refer to the container label for information regarding integrated pest management, use rate determination, preharvest interval, application and mixing, chemigation, storage and disposal, and conditions for sale and warranty.

**FOR USE AS A SOIL TREATMENT ON SELECT AGRICULTURAL FIELD CROPS**

SERENADE SOIL has a 0-Day PreHarvest Interval for all crops contained on this labeling. Under moderate to severe disease pressure, for improved performance, increase rates and reduce spray intervals or use SERENADE SOIL in a tank-mix or rotational program with other registered fungicides.

SERENADE SOIL is a broad spectrum biofungicide for the prevention, suppression and control of soil borne diseases on a wide range of vegetables. SERENADE SOIL enhances germination and plant growth by suppressing soil diseases, such as those caused by *Rhizoctonia*, *Pythium*, *Fusarium*, *Verticillium* and *Phytophthora*. See the application tables for specific information.



**SERENADE® SOIL**  
**EPA Reg. No. 69592-12**  
**SUPPLEMENTAL LABELING**  
**For Use on Legumes in California Only**

Crops	Disease	Rate (qt/acre)	Application Instructions
<b>Legumes Vegetables (Succulent or Dried)</b> Beans Green Beans Snap Beans Shell Beans Soybeans Dry Beans Garbanzo Beans Lima Beans Peas Chick Peas Split Peas Lentils and other legume vegetables (including those grown for seed or oil production).	<i>Rhizoctonia</i> spp.	2 – 6	<p><b>All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications:</b> Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of Serenade SOIL in the appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. SERENADE SOIL can be mixed with chemical fungicides registered for soil applications.</p> <p><b>Soil Surface (Drench) Applications At Planting:</b> Use at planting, seeding or transplant. Apply finished spray mixture, at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems.</p> <p><b>Shanked-In and Injected Applications:</b> Serenade SOIL can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients.</p> <p><b>In-Furrow Applications:</b> For in-furrow applications, apply Serenade SOIL as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered.</p> <p><b>Soil Surface (Drench) Applications At Any Stage of Growth:</b> Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle.</p>

SERENADE® is a registered trademark of AgraQuest, Inc.  
 © Copyright AgraQuest, Inc. 2012

**Label Code: 040212**

**Expiration Date: 10/02/2013**

**This Supplemental Label expires on 10/02/2013 and must not be used or distributed after this date.**



4/5  
**ACCEPTED**

JUN 06 2012

**SERENADE® SOIL**

EPA Reg. No. 69592-12

Under the Federal Insecticide, Fungicide,  
and Rodenticide Act, as amended, for  
the pesticide registered under  
EPA Reg. No. 69592-12

**SUPPLEMENTAL LABELING**

**For Use on Leafy Vegetables in California Only**

**DIRECTIONS FOR USE**

- It is a violation of Federal law to use this product in a manner inconsistent with its labeling. For any requirements specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.
- This labeling, which includes use on Leafy Vegetables and revised application instructions not previously printed on the container label, must be in the possession of the user at the time of pesticide application.
- Read the label affixed to the SERENADE SOIL container before applying.
- Use of SERENADE SOIL according to this labeling is subject to the use precautions and limitations imposed by the label affixed to the SERENADE SOIL container.
- For the specified crops, this labeling supersedes the container label bearing AgraQuest's label code number AQ1334-001. This supplemental label is intended for use in California only.
- Refer to the container label for information regarding integrated pest management, use rate determination, preharvest interval, application and mixing, chemigation, storage and disposal, and conditions for sale and warranty.

**FOR USE AS A SOIL TREATMENT ON SELECT AGRICULTURAL FIELD CROPS**

SERENADE SOIL has a 0-Day PreHarvest Interval for all crops contained on this labeling. Under moderate to severe disease pressure, for improved performance, increase rates and reduce spray intervals or use SERENADE SOIL in a tank-mix or rotational program with other registered fungicides.

SERENADE SOIL is a broad spectrum biofungicide for the prevention, suppression and control of soil borne diseases on a wide range of vegetables. SERENADE SOIL enhances germination and plant growth by suppressing soil diseases, such as those caused by *Rhizoctonia*, *Pythium*, *Fusarium*, *Verticillium* and *Phytophthora*. See the application tables for specific information.

Page 1 of 2



1540 Drew Avenue, Davis, CA 95818, U.S.A.

+1 (530) 750-0150 • fax +1 (530) 750-0153 • www.agraquest.com

**SERENADE® SOIL**  
 EPA Reg. No. 69592-12  
**SUPPLEMENTAL LABELING**

**For Use on Leafy Vegetables in California Only**

Crops	Disease	Rate (qt/acre)	Application Instructions
<p><b>Leafy Vegetables</b></p> <p>Lettuce                      Celery                      Spinach                      Parsley                      Radicchio                      and other leafy vegetables</p>	<p><b>Sclerotinia Head and Leaf Drop –</b>  <i>Sclerotinia</i> spp.</p>	<p align="center">2 – 6</p>	<p><b>All Soil Surface (Drench), Shanked-In, Injected and In-Furrow Applications:</b> Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of Serenade SOIL in the appropriate amount of water per acre. Use higher application rates when the weather conditions are expected to be conducive to disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. SERENADE SOIL can be mixed with chemical fungicides registered for soil applications.</p> <p><b>Soil Surface (Drench) Applications At Planting:</b> Use at planting, seeding or transplant. Apply finished spray mixture, at a rate to thoroughly soak the growing media through the root zone, as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light Irrigation after application to incorporate the product may improve disease control.</p> <p><b>Shanked-In and Injected Applications:</b> Serenade SOIL can be shanked-in or injected into the soil prior to-, at-, or post-planting/transplanting of crops alone or with most types of liquid nutrients. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light Irrigation after application to incorporate the product may improve disease control.</p> <p><b>In-Furrow Applications:</b> For in-furrow applications, apply Serenade SOIL as an in-furrow spray in the appropriate amount of water per acre for the crop at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Repeat applications on 10- to 14-day intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure. Light Irrigation after application to incorporate the product may improve disease control.</p> <p><b>Soil Surface (Drench) Applications At Any Stage of Growth:</b> Apply the finished spray mixture to the surface of the soil as a drench or directed spray using hand-held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler or drip irrigation systems. When applying as a spray (e.g., via hydraulic nozzles at low volumes), it is important to irrigate to move the material into the seed, root or transplant zone. Normal operation of overhead sprinklers and drip irrigation systems are sufficient for effective applications. Optimal performance is obtained with preventative treatments repeated every 10- to 14-days intervals if conditions for disease development persist. Use higher rates under conditions conducive to moderate to severe disease pressure.</p>

SERENADE® is a registered trademark of AgraQuest, Inc.  
 © Copyright AgraQuest, Inc. 2012

**Label Code: 041012**

**Expiration Date: 10/10/2013**

**This Supplemental Label expires on 10/10/2013 and must not be used or distributed after this date.**

