SERENADE®
FOR AGRICULTURAL USE

Can be Used for Organic Production

ACTIVE INGREDIENT:
QST 713 strain of dried Bacillus subtilis*.................................. 1.34%
OTHER INGREDIENTS .......................................................... 98.66%
TOTAL .......................................................... 100.00%

*Contains a minimum of $1 \times 10^5$ ctu/g.

EPA Reg. No. 69592-12
EPA Est. No. 69592-MEX-10, 34704-MS-2, 47857-CA-11, 61933-FL-10
Superscript corresponds to last two digits of container lot number.

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

US0034-S-001 • MADE IN MEXICO • AQ1334-001

NET CONTENTS:
☐ 2.5 GAL. (9.46 L)
☐ 30.0 GAL. (113.56 L)

KEEP OUT OF REACH OF CHILDREN

CAUTION

See attached label booklet for First Aid, Precautionary Statements, Storage and Disposal Instructions and Directions for Use.

AGRAQUEST
AgraQuest, Inc.
1540 Drew Avenue
Davis, California 95618
information@agraquest.com
www.agraquest.com

Can be Used for Organic Production
PRECAUTIONARY STATEMENTS
HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION

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

FIRST AID

IF INHALED:

- Move person to fresh air.
- If person is not breathing, call 911 or an ambulance, and 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, doctor, or going for treatment.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Unless specifically differentiated, the PPE requirements that follow apply to both Worker Protection Standard (WPS) uses, in general, agricultural plant uses covered by the Worker Protection Standard (40 CFR Part 170) and Non-WPS uses.

Applicators and other handlers must wear:
- Long-sleeved shirt and long pants
- Waterproof gloves
- Shoes plus socks

Follow manufacturer’s instructions for cleaning and maintaining PPE. If no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry.

For WPS uses, the following apply:
- Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least R-95, P-95, or N-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.
- For Non-WPS uses, the following apply.

As a general precaution, when exposed to high concentrations of a living microbial product such as this, wear a dust particle mask when mixing or applying this product. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENGINEERING CONTROLS

When handlers use closed systems, enclosed cabinets, or aircar in a manner that meets requirements listed in the Worker Protection Standard (WPS) for agricultural pesticidsd, the handler PPE requirements may be reduced or modified as specified in the WPS.

IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicants and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment breakdown.

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

For terrestrial uses. Do not apply directly to water, or 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 rinsates. Do not apply when weather conditions favor drift or run-off from treated areas.

EMERGENCY INFORMATION

For emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1.800.424.9300.

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.

STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

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 disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: For 1.9-gallon, 2.5-gallon, 3-gallon, or 5-gallon plastic containers:
- Nonreturnable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drop. Fill the container ¾ full with water and recap. Shake for 10 seconds. Pour rinse into application equipment or mix tank and store rinsewater 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. If burned, stay out of smoke.

For 30-gallon plastic containers - Nonreturnable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¾ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinse into application equipment or mix tank and store rinsewater for later use or disposal. 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. If burned, stay out of smoke.

AgraQuest

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US0034-P-001 AQ1334-001
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• Long-sleeved shirt and long pants
• Waterproof gloves
• Shoes plus socks

Follow manufacturer’s instructions for cleaning and maintaining PPE. If no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry.

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Mixers/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

For Non-WPS uses, the following apply:
As a general precaution, when exposed to high concentrations of a living microbial product such as this, wear a dust particle mask when mixing or applying this product. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

ENGINEERING CONTROLS

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides, the handler PPE requirements may be reduced or modified as specified in the WPS.
IMPORTANT: When reduced PPE is worn because a closed system is being used, handlers must be provided all PPE specified above for "applicators and other handlers" and have such PPE immediately available for use in an emergency, such as a spill or equipment break-down.

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.
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ENVIRONMENTAL HAZARDS
For terrestrial uses: Do not apply directly to water, or 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. Do not apply when weather conditions favor drift or run-off from treated areas.

EMERGENCY INFORMATION
For emergencies such as leaks or spills, call 24-hour toll-free CHEMTREC hotline at 1.800.424.9300.

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.

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 4 hours.

Exception: If the product is soil injected or soil incorporated, the Worker Protection Standard, under certain circumstances, allows workers to enter the treated area if there will be no contact with anything that has been treated.

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

GENERAL USE INFORMATION
SERENADE® SOIL is a broad spectrum, preventative product for the control or suppression of many important plant diseases. Apply SERENADE SOIL as a soil drench alone or in tank mixes with other registered crop protection products. When conditions are conducive to heavy disease pressure, use SERENADE SOIL in a rotational program with other registered fungicides. Apply SERENADE SOIL with spray equipment commonly used for making ground applications and sprinkler/irrigation systems commonly used for chemigation. Heavy rainfall or irrigation shortly after application may require retreatment.

INTEGRATED PEST MANAGEMENT (IPM)
Integrate SERENADE SOIL into an overall disease and pest management strategy whenever fungicide use is necessary. Follow practices known to reduce disease development. Consult local agricultural authorities for specific IPM strategies developed for your crop(s) and location.

Be sure use of this product conforms to resistance management strategies, which may include rotating and/or tank mixing with other products with different modes of action.

USE RATE DETERMINATION
Carefully read and follow all label directions, use rates and restrictions. Application of SERENADE SOIL prior to or in the early stages of disease development provides the best control or suppression of the targeted plant disease. Use maximum label rates and shortened spray intervals for conditions conducive to threatening or rapid disease development. For proper application, determine the number of acres to be treated, and the label use rate. Prepare only the amount of spray solution required to treat the measured acreage. Accurate spray equipment calibration is essential prior to use.

**PREHARVEST INTERVAL**

SERENADE SOIL can be applied up to and including the day of harvest.

**APPLICATION INSTRUCTIONS**

**GENERAL:** Avoiding spray drift at the application site is the responsibility of the applicator. The interaction of many equipment- and weather-related factors determine the potential for spray drift. The applicator and the grower/treatment coordinator are responsible for considering all of these factors when making decisions. Where states have more stringent regulations, they should be observed.

**GROUND:** Be sure to maintain agitation during mixing and application to assure uniform product suspension. Thorough coverage of all foliage is essential for effective disease control. SERENADE SOIL can be applied in commonly used ground equipment, hose-end, pressurized, greenhouse and hand-held sprayers. To achieve good coverage, use proper spray pressure, gallonage per acre, nozzles, nozzle spacing and ground speed. Consult spray nozzle and accessory catalogues for specific information on proper equipment calibration.

**CHEMIGATION:** This product can be applied through sprinkler (center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set, and hand move) or drip type irrigation systems. Refer to the Chemigation Directions for Use section of this label for general directions and precautions. Use the application rate indicated for the appropriate crop as specified in the Application Rate tables of this label.

**MIXING INSTRUCTIONS**

**MIXING:** SERENADE SOIL must be diluted with water. Partially fill the spray tank with clean water and begin agitation. Add the specified amount of SERENADE SOIL to the tank. Finish filling the tank to the desired volume to obtain the proper spray concentration. It is critical that the spray solution be agitated during mixing and application to assure a uniform suspension. Do not allow spray mixture to stand overnight or for prolonged periods. Maintain a spray solution pH between 4.5 and 8.5.

SERENADE SOIL may be tank mixed with other registered pesticides to enhance plant disease control. This product cannot be mixed with any product with prohibition against such mixing. When tank mixing SERENADE SOIL with other registered pesticides, always read and follow all use directions, restrictions, and precautions of both SERENADE SOIL and the tank-mix partner(s). Use of the resulting tank mix must be in accordance with the more restrictive label limitations and precautions. Do not exceed label dosage rates.

**COMPATIBILITY:** Do not combine SERENADE SOIL 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.

SERENADE SOIL is compatible with many commonly used pesticides, fertilizers, adjuvants and surfactants but has not been fully evaluated with all of these. To ensure compatibility of tank-mix combinations, evaluate them prior to use as follows: Using a suitable container, add proportional amounts of product to water. Add wettable powders first, followed by water dispersible granules, then by 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 combination on a small portion of the crop to be treated to ensure that a phytotoxic response will not occur as a result of application.

**ADDITIVES:** SERENADE SOIL is compatible with a wide range of additives.
CHEMIGATION DIRECTIONS FOR USE

General Requirements:
1) Apply this product only through sprinkler (including center pivot, lateral move, end tow, side (wheel) roll, traveler, solid set or hand move) or drip type irrigation systems. Do not apply this product through any other type of irrigation system.
2) Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.
3) Ensure that the irrigation system used is properly calibrated and if you have questions, call the State Extension Service specialists, the equipment manufacturer or other experts.
4) Do not connect an irrigation system (including greenhouse systems) used for pesticide application to a public water system unless the pesticide label-prescribed safety devices for public water systems are in place.
5) A person knowledgeable of the chemigation system and responsible for its operation, or under the supervision of the responsible person, shall shut the system down and make any necessary adjustments should the need arise.

Requirements for Chemigation Systems Connected to Public Water Systems:
1) Public water supply means a system for the provision to the public of piped water for human consumption if such system has at least 15 service connections or regularly serves an average of 25 individuals daily at least 60 days throughout the year.
2) Chemigation systems connected to the public water systems must contain a functional, reduced-pressure zone (RPZ), backflow preventer or the functional equivalent in the water supply upstream from the point of pesticide introduction. As an option to the RPZ, the water from the public water system should be discharged into a reservoir tank prior to pesticide introduction. There shall be a complete physical break (air gap) between the outlet end of the fill pipe and the top of the overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
3) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back towards the injection pump.
4) The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.
5) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops, or in cases where there is no water pump, when the water pressure decreases to the point where pesticide distribution is adversely affected.
6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump), effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7) Do not apply when wind speed favors drift beyond the area intended for treatment.
8) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.
9) Do not combine SERENADE SOIL with pesticides, surfactants or fertilizers for application through chemigation equipment unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use. SERENADE SOIL has not been fully evaluated for compatibility with all adjuvants or surfactants. Conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.
10) Maintain agitation in the pesticide supply tank.
11) Apply SERENADE SOIL during the last half of the water application.
12) Dilute SERENADE SOIL in enough water to be able to draw through system for the last half of the water application.

Sprinkler Chemigation Requirements:
1) The system must contain a functional check valve, vacuum relief valve, and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.
2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.
3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

4) The system must contain functional interlocking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6) Systems must use a metering pump, such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7) Do not apply when wind speed favors drift beyond the area intended for treatment.

8) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.

9) Do not combine SERENAIDE SOIL with pesticides, surfactants or fertilizers for application through chemigation equipment unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use. SERENAIDE SOIL has not been fully evaluated for compatibility with all adjuvants or surfactants. Conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.

**Center Pivot, Lateral Move, End Tow, and Traveler Irrigation Equipment (Use only with electric or oil hydraulic drive systems which provide a uniform water distribution):**

- Determine size of area to be treated.
- Determine the time required to apply no more than 1/4 inch of water (6,750 gallons water per acre) over the area to be treated when the system and injection equipment are operated at normal pressures recommended by the equipment manufacturer. Run system at 80 to 95% of manufacturer's rated capacity.
- Using only water, determine the injection pump output when operated at normal line pressure.
- Determine the amount of SERENAIDE SOIL fungicide required to treat area.
- Add required amount of SERENAIDE SOIL fungicide and sufficient water to meet the injection time requirements of the solution tank.
- Maintain constant solution tank agitation during the injection period.
- Stop injection equipment after treatment is completed. Continue to operate the system until SERENAIDE SOIL fungicide solution has cleared the sprinkler head.

**Solid Set, Side (Wheel) Roll, and Hand Move Irrigation Equipment:**

- Determine acreage covered by sprinkler.
- Fill injector solution tank with water and adjust flow rate to use contents over a 10- to 30-minute interval.
- Determine the amount of SERENAIDE SOIL fungicide required to treat area.
- Add the required amount of SERENAIDE SOIL fungicide into the same quantity of water used to calibrate the injection equipment.
- Maintain constant solution tank agitation during the injection period.
- Operate system at normal pressures recommended by the manufacturer of the injection equipment and used for the time interval established during calibration.
- Inject SERENAIDE SOIL fungicide at the end of the irrigation cycle or as a separate application to maximize foliar fungicide retention.
- Stop injection equipment after treatment is completed. Continue to operate the system until SERENAIDE SOIL fungicide solution has cleared the last sprinkler head.

**Drip Chemigation Requirements:**
1) The system must contain a functional check valve, vacuum relief valve and low pressure drain appropriately located on the irrigation pipeline to prevent water source contamination from back flow.

2) The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection pump.

3) The pesticide injection pipeline must also contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and connected to the system interlock to prevent fluid from being withdrawn from the supply tank when the irrigation system is either automatically or manually shut down.

4) The system must contain functional inter-locking controls to automatically shut off the pesticide injection pump when the water pump motor stops.

5) The irrigation line or water pump must include a functional pressure switch which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

6) Systems must use a metering pump such as a positive displacement injection pump (e.g., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

7) Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and entire injector system. Flush with clean water. Failure to provide a clean tank, void of scale or residues may cause product to lose effectiveness or strength.

8) Do not combine SERENADEC SOIL with pesticides, surfactants or fertilizers for application through chemigation equipment unless prior experience has shown the combination physically compatible, effective and non-injurious under conditions of use. SERENADEC SOIL has not been fully evaluated for compatibility with all adjuvants or surfactants. Conduct a spray compatibility test if mixture with adjuvants or surfactants is planned.

9) Maintain agitation in the pesticide supply tank.

10) Apply SERENADEC SOIL during the last half of the water application.

11) Dilute SERENADEC SOIL in enough water to be able to draw through system for the last half of the water application.
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 label. 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 fruits and vegetables. SERENADE SOIL enhances germination and plant growth by suppressing diseases caused by Rhizoctonia, Pythium, Fusarium, Verticillium and Phytophthora.

APPLICATION INSTRUCTIONS:

Soil Treatment At Planting:
Use at planting, seeding, or transplant. Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of SERENADE SOIL in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure. Apply finished mixture at a rate to thoroughly soak the growing media through the root zone (1 pint finished mixture / sq ft for each 3 inches of soil depth) 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. SERENADE SOIL can be mixed with chemical fungicides registered for soil applications.

Soil Treatment Through Irrigation: Use at any stage of plant growth. Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of SERENADE SOIL in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle. SERENADE SOIL can be mixed with chemical fungicides registered for soil applications.

In-Furrow Applications:
For in-furrow applications, apply SERENADE SOIL as an in-furrow spray in 5-15 gallons of water at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Use the higher rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place.

See application rates tables for rates and application instructions.

<table>
<thead>
<tr>
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<th>Product Per Acre (fl oz)</th>
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<tbody>
<tr>
<td>ft oz product</td>
<td>22&quot; rows</td>
</tr>
<tr>
<td>2.2</td>
<td>52.3</td>
</tr>
<tr>
<td>13.2</td>
<td>313.6</td>
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40" = 13,068 row ft/acre, 38" = 13,754 row ft/acre, 36" = 14,520 row ft/acre, 34" = 15,374 row ft/acre, 32" = 16,315 row ft/acre, 30" = 17,424 row ft/acre, and 22" = 23,760 row ft/acre.
## Application Rates of SERENADE SOIL for Soil Uses in Field for Soil Borne/Seedling Disease Control

<table>
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<tr>
<th>Crops</th>
<th>Disease</th>
<th>Rate</th>
<th>Application Instructions Soil Drench and In-furrow</th>
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</table>
| Root / Tuber and Corm Vegetables | *Rhizoctonia* spp.  
*Pythium* spp.  
*Fusarium* spp.  
*Verticillium* spp.**  
*Phytophthora* spp. | **NOT FOR USE IN CALIFORNIA** | Soil Drench  
2 – 6 qt/acre | Mix 2 qt (64 fl oz) to 6 qt (192 fl oz) of SERENADE SOIL in appropriate amount of water per acre. Use higher application rates under conditions of heavy disease pressure. Apply finished mixture at a rate to thoroughly soak the growing media through the root zone (1 pint finished mixture / sq ft for each 3 inches of soil depth) 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. Begin applications at planting, during or after seeding, during or after transplanting and at any stage of plant growth. Optimal performance is obtained with preventative treatments repeated every 21 to 28 days throughout the growing cycle. SERENADE SOIL can be mixed with chemical fungicides registered for soil applications. |
| Fruiting Vegetables | Pepper  
Tomato  
Eggplant  
Ground Cherry  
Tomatillo  
Okra  
and other fruiting vegetables | In-furrow  
2.2 -13.2 fl oz / 1000 row feet | In-Furrow Applications:  
For in-furrow applications, apply SERENADE SOIL as an in-furrow spray in 5 -15 gallons of water at planting. Mount the spray nozzle so the spray is directed in the furrow just before the seeds are covered. Use the higher rates when the weather conditions are expected to be conducive for disease development, if the field has a history of disease problems, or if minimum/low till programs are in place. See in-furrow application table for rates based on row width. |

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| Cucurbits | *Rhizoctonia* spp.  
*Pythium* spp.  
*Fusarium* spp.  
*Verticillium* spp.**  
*Phytophthora* spp. | **NOT FOR USE IN CALIFORNIA** | In-furrow  
2.2 -13.2 fl oz / 1000 row feet | In-Furrow Applications:  
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| Cucumber  
Cantaloupe  
Melon  
Muskmelon  
Squash  
Watermelon and other cucurbit crops | **NOT FOR USE IN CALIFORNIA** | | |
STORAGE AND DISPOSAL

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

PESTICIDE STORAGE: Store in a dry area inaccessible to children. Store in original containers only. Keep container closed when not in use.

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 disposal program (often such programs are run by state or local governments or by industry).

CONTAINER HANDLING: For 1.0-gallon, 2.5-gallon, 3-gallon, or 5-gallon plastic containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank and drain for 10 seconds after the flow begins to drip. Fill the container ¼ 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. 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. If burned, stay out of smoke.

For 30-gallon plastic containers - Nonrefillable container. Do not reuse or refill this container. Triple rinse container (or equivalent) promptly after emptying. Triple rinse as follows: Empty the remaining contents into application equipment or mix tank. Fill the container ¼ full with water. Replace and tighten closures. Tip container on its side and roll it back and forth, ensuring at least one complete revolution, for 30 seconds. Stand the container on its end and tip it back and forth several times. Empty rinsate into application equipment or a mix tank or store rinsate for later use or disposal. 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. If burned, stay out of smoke.

For 110-gallon or larger returnable mini-bulk containers – Return empty container for reuse. Refillable container. 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 rinsing 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. If burned, stay out of smoke.

CONDITIONS FOR SALE AND WARRANTY

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