



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

**OFFICE OF CHEMICAL SAFETY
AND POLLUTION PREVENTION**

October 28, 2022

Rebecca L. Wilken
Global Regulatory Affairs Manager
Certis USA LLC
9145 Guilford Road
Suite 175
Columbia, MD 21046

Subject: Non-PRIA (Pesticide Registration Improvement Act) Labeling Amendment – Changes to Crop List Order, Add Pests for Hemp, and Other Minor Revisions
Product Name: CX-9032
EPA Registration Number: 70051-107
EPA Receipt Date: 09/12/2022
Action Case Number: 00392953

Dear Ms. Wilken:

The amended labeling referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA), as amended, is acceptable.

This approval does not affect any terms or conditions that were previously imposed on this registration. You continue to be subject to existing terms or conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one (1) copy of the final printed labeling before you release this product for shipment with the new labeling. In accordance with 40 CFR § 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. “To distribute or sell” is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR § 152.3.

Should you wish to add/retain a reference to your company’s website on your label, then please be aware that the website becomes labeling under FIFRA and is subject to review by the U.S. Environmental Protection Agency (EPA). If the website is false or misleading, the product will be considered to be misbranded and sale or distribution of the product is unlawful under FIFRA section 12(a)(1)(E). 40 CFR § 156.10(a)(5) lists examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product’s label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should EPA find or if it is brought to our attention that a website contains statements or claims substantially differing from statements or claims made in connection with obtaining a FIFRA section 3 registration, the website will be referred to EPA’s Office of Enforcement and Compliance Assurance.

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Your release for shipment of this product constitutes acceptance of these terms. If these terms are not complied with, this registration will be subject to cancellation in accordance with FIFRA section 6.

If you have any questions, please contact please contact Daniel Schoeff via email at schoeff.daniel@epa.gov.

Sincerely,

DANIEL
SCHOEFF

Digitally signed by
DANIEL SCHOEFF
Date: 2022.10.28
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Daniel Schoeff, Risk Manager
Microbial Pesticides Branch
Biopesticides and Pollution
Prevention Division (7511M)
Office of Pesticide Programs

MASTER LABEL
SUBLABEL A: Agricultural Use

CX-9032

BIOFUNGICIDE

{Alternate Brand Names: See Last Page of Master Label for List of ABNs}

Aqueous Suspension Biofungicide/Bactericide



FOR ORGANIC PRODUCTION



Active Ingredient:

Bacillus amyloliquefaciens strain D747*98.85%

Other Ingredients 1.15%

Total 100.00%

*Contains a minimum of 1×10^{10} colony-forming units (cfu) per milliliter of product

KEEP OUT OF REACH OF CHILDREN

See [Inside][Side] [Panel][Panels] for [Additional] [Precautionary Statements], [Direction for Use], [and] [Storage and Disposal]

MANUFACTURED BY:

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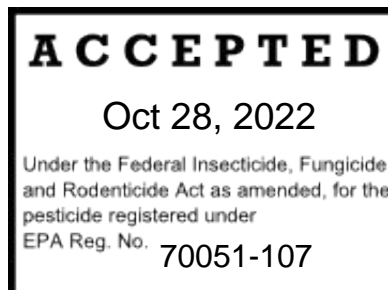


EPA Reg. No. 70051-107

EPA Est. No.

Lot Number:

Net Contents:



PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Mixer/loaders and applicators must wear a NIOSH approved particulate filter with any N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH- approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

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

When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR §170.607 (d), (e), and (f)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticides get 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.
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

PRODUCT INFORMATION

This product is a broad-spectrum preventative biofungicide/bactericide for control or suppression of fungal and bacterial plant diseases. The active ingredient is a strain (D747) of the beneficial bacterium *Bacillus amyloliquefaciens*. This product also colonizes plant root hairs, preventing establishment of disease-causing fungi and bacteria.

This product can be applied alone or in combination and/or rotation with chemical fungicides as a tool for integrated disease management in agricultural crops, ornamental, and nursery plants, and turfgrass. This product offers a valuable tool for management of resistance to chemical fungicides through its multiple and unique modes of action.

This product can be applied up to and including the day of harvest.

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.

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.

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 intervals. 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.

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, chemical resistant gloves (made of any waterproof material), shoes plus socks.

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.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

MIXING AND HANDLING INSTRUCTIONS

Mix the required amount of product in water with sufficient agitation to maintain a uniform suspension in the spray or mixing tank. Tank should be cleaned prior to use. Do not use highly alkaline or highly acidic water to mix sprays. Use a buffering agent if necessary to maintain neutrality (pH 6 to 8) of water in the tank. Maintain agitation during application. Apply immediately after mixing; do not allow spray mix to stand overnight.

This product can be mixed and used with other agricultural chemicals for which such mixing is permitted by the product labels, in accordance with the most restrictive of those label limitations and precautions. If such a mixture is planned, a compatibility "jar test" should first be conducted by mixing the correct proportions of product and the other intended agricultural chemicals in a small volume of water.

APPLICATION METHODS

Ground: Apply through most commonly-used ground application equipment, such as (but not limited to): tractor-mounted boom, airblast, high clearance, hose-end, backpack, and other pressurized sprayers; hose-end or hand-held sprayers; foggers or mist blowers; water wheel and other drench applicators; and shank or other soil injection method.

Aerial: Apply by fixed or rotary winged aircraft in a minimum of 3 gallons of water per acre. Use standard precautions to minimize spray drift.

Chemigation: Apply through drip (trickle) and sprinkler-type irrigation equipment. Refer to the section entitled "Chemigation Instructions" for detailed instructions.

Agricultural Crops

Berry and Small Fruit – Caneberries; Bushberries; Large Shrub/Tree Berries; Small Fruit, Vine Climbing (Crop Subgroups 13-07A, 13-07B, 13-07C, and 13-07D): Amur river grape; aronia berry; bayberry; blackberry; blueberry, highbush; blueberry, lowbush; buffalo currant; buffaloberry; che; Chilean guava; chokecherry; cranberry, highbush; currant, black; currant, red; elderberry; European barberry; gooseberry; grape; honeysuckle, edible; huckleberry; jostaberry; Juneberry (Saskatoon berry); kiwifruit, fuzzy; kiwifruit, hardy; lingonberry; loganberry; maypop; mulberry; mountain pepper berries; native currant; phalsa; pincherry; raspberry, black and red; riberry; salal; schisandra berry; sea buckthorn; serviceberry; wild raspberry; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Except Grape	
Mummy berry (<i>Monilinia vaccinii-corymbosi</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Botrytis blight (<i>Botrytis cinerea</i>) Sclerotinia (<i>Sclerotinia sclerotiorum</i>)	
Bacterial canker (<i>Pseudomonas</i> spp.)	Apply before fall rains and again during dormancy before spring growth.
Anthracoese fruit rot (<i>Colletotrichum acutatum</i>)	Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections.
Grape	
Powdery mildew (<i>Erysiphe</i> (formerly <i>Uncinula</i>) <i>necator</i>)	Start applications when new shoots are ½ to 1½ inches long. Repeat at 3-5 inches, 8-10 inches, and then at 7-14 day intervals until disease conditions no longer exist.
Gray mold (<i>Botrytis cinerea</i>) Sour rot complex	Apply at bloom, before bunch closure, at veraison, and before harvest.
Downy mildew (<i>Plasmopara viticola</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Phomopsis (<i>Phomopsis viticola</i>)	Apply when shoots are ½ to 1 inch long and again when 6-8 inches long.
Eutypa (<i>Eutypa lata</i>)	Mix 2 fluid ounces of product per gallon of water and apply to pruning wounds.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for “Root diseases” and “Collar rots.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Berry and Small Fruit – Low Growing Berries (Crop Subgroup 13-07G): Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Sphaerotheca macularis</i> , <i>Erysiphe</i> spp.)†	Start applications at or just before flowering and repeat every 7-10 days as needed through harvest. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Gray mold (<i>Botrytis cinerea</i>)†	Begin applications at or before pistillate bloom, repeating every 7-10 days. Apply before rainfall if possible, and tank mix or rotate with a copper-based bactericide registered for such use for improved control. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Anthracoese (<i>Colletotrichum acutatum</i>)	
Angular leaf spot (<i>Xanthomonas fragariae</i>)‡	‡Tank mix or rotate with copper-based fungicides at label rates for improved control.

{ } Symbolizes explanatory text to the reviewer
 [] Indicates optional text

Berry and Small Fruit – Low Growing Berries (Crop Subgroup 13-07G):	
Bearberry; bilberry; blueberry, lowbush; cloudberry; cranberry; lingonberry; muntries; partridgeberry; strawberry; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
"Damping off" and root or crown diseases caused by <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Pythium</i> , <i>Phytophthora</i> , and/or <i>Verticillium</i> † spp. Charcoal rot (<i>Macrophomina phaseolina</i>)**	See instructions for "Soil application" and "Root dip." For treatment of roots immediately before transplanting: immerse bare roots (individually or in bunches) for 10 seconds in a suspension of 1 or 2 pints of product per gallon of water. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ** Not for use in California.

Brassica Head and Stem Vegetables (Crop Group 5-16):	
Broccoli; Brussels sprouts; cabbage; cabbage, Chinese, napa; cauliflower; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
Pin rot complex (<i>Alternaria/Xanthomonas</i>)† Leaf spots (<i>Alternaria</i> spp., <i>Xanthomonas</i> spp.) Downy mildew (<i>Peronospora</i> spp.) Powdery mildew (<i>Erysiphe polygoni</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Bulb Vegetables – Onion, Bulb (Crop Subgroup 3-07A):	
Daylily, bulb; fritillaria, bulb; garlic, bulb; garlic, great-headed, bulb; garlic, serpent, bulb; lily, bulb; onion, bulb; onion, Chinese, bulb; onion, pearl; onion, potato, bulb; shallot, bulb; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
<i>Botrytis</i> spp. (neck rot, leaf blight) Purple blotch (<i>Alternaria</i> spp.) Downy mildew (<i>Peronospora</i> spp.) Powdery mildew (<i>Erysiphe</i> spp.) Rust (<i>Puccinia porii</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Cereal Grains (Crop Group 15):	
Barley; buckwheat; corn; millet, pearl; millet, proso; oats; popcorn; rice; rye; sorghum (milo); teosinte; triticale; wheat; wild rice	
Target disease/pathogen (bacteria & fungi)	Additional information
Except Corn**	
Powdery mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia</i> spp.)† Rice blast (<i>Pyricularia oryzae</i>) Sheath spot/blight (<i>Rhizoctonia</i> and <i>Thanatephorus</i> spp.) Smut (<i>Tilletia barclayana</i>) Bacterial blight/streak (<i>Xanthomonas</i> spp.) Stem rots (<i>Magnaporthe</i> and <i>Sclerotium</i> spp.) <i>Cercospora</i> leaf spot Brown rot/leaf spots/smuts (<i>Ceratobasidium</i> , <i>Cochliobolus</i> , <i>Dreschlera</i> , and <i>Entyloma</i> spp.)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ** Not for use in California.
Corn Only	
<i>Botrytis</i> spp. Southern leaf blight (<i>Bipolaris maydis</i> / <i>Cochliobolus heterostrophus</i> / <i>Helminthosporium maydis</i>) Rusts (<i>Puccinia</i> spp.)	
Leaf spots (<i>Cercospora</i> and <i>Cercosporidium</i> spp.)† Common rust (<i>Puccinia sorghi</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
<i>Botrytis</i> spp. Southern leaf blight (<i>Bipolaris maydis</i> / <i>Cochliobolus heterostrophus</i> / <i>Helminthosporium maydis</i>) Rusts (<i>Puccinia</i> spp.)	

Citrus Fruit (Crop Group 10-10):	
Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; white lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; unqi fruit; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Greasy spot (<i>Mycosphaerella citri</i>)†	Apply at first new foliar flush and repeat with each new flush. Tank mix with spray oil or copper based fungicide at listed rates. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Citrus canker (<i>Xanthomonas campestris</i> pv. <i>citri</i>)‡	‡ Tank mix or rotate with copper-based fungicides at label rates for improved control.
Scab (<i>Elsinoe fawcetti</i>)†	Start applications at first new foliage flush and repeat at petal fall and when fruit are ½ inch in diameter. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Postbloom fruit drop (<i>Colletotrichum acutatum</i>)† <i>Alternaria</i> leaf spot (<i>Alternaria alternata</i>) Melanose (<i>Diaporthe citri</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Citrus Fruit (Crop Group 10-10):	
Australian desert lime; Australian finger-lime; Australian round lime; Brown River finger lime; calamondin; citron; citrus hybrids; grapefruit; Japanese summer grapefruit; kumquat; lemon; lime; Mediterranean mandarin; mount white lime; New Guinea wild lime; orange, sour; orange, sweet; pummelo; Russell River lime; satsuma mandarin; sweet lime; tachibana orange; Tahiti lime; tangelo; tangerine (mandarin); tangor; trifoliate orange; unqi fruit; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for “Root diseases” and “Collar rots.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Coffee	
Target disease/pathogen (bacteria & fungi)	Additional information
Coffee berry disease (<i>Colletotrichum coffeanum</i>)‡ Coffee rust (<i>Hemileia vastatrix</i>)‡**	‡Tank mix or rotate with copper-based fungicides at label rates for improved control. ** Not for use in California.
Anthrachnose (<i>Colletotrichum</i> spp.) <i>Botrytis</i> flower blight <i>Cercospora</i> leaf spot** and berry blotch**	** Not for use in California.
“Damping off” and root or crown diseases caused by <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Pythium</i> , <i>Phytophthora</i> , and/or <i>Verticillium</i> † spp.	See instructions for “Soil application.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Cucurbit Vegetables (Crop Group 9):	
Chayote (fruit); Chinese waxgourd (Chinese preserving melon); citron melon; cucumber; gherkin; gourd, edible (includes hyotan, cucuzza, hechima, Chinese okra); Momordica spp (includes balsam apple, balsam pear, bittermelon, Chinese cucumber); muskmelon (includes true canteloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); pumpkin; squash, summer (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); squash, winter (includes butternut squash, calabaza, hubbard squash, acorn squash, spaghetti squash); watermelon.	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Erysiphe</i> and <i>Sphaerotheca</i> spp.) Downy mildew (<i>Pseudoperonospora</i> spp.) Gummy stem blight (<i>Didymella bryoniae</i> and <i>Phoma cucurbitacearum</i>)	
Vine decline (<i>Monosporascus cannonballus</i>) ** Charcoal rot (<i>Macrophomina phaseoli</i>)** “Damping off,” seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for “Soil application.” ** Not for use in California. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Fruiting Vegetables (Crop Group 8-10):	
African eggplant; bush tomato; bell pepper; cocona; currant tomato; eggplant; garden huckleberry; goji berry; groundcherry; martynia; naranjilla; okra; pea eggplant; pepino; non-bell pepper; roselle; scarlet eggplant; sunberry; tomatillo; tomato; tree tomato; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Bacterial spot (<i>Xanthomonas</i> spp.)†‡ Bacterial speck (<i>Pseudomonas syringae</i> pv. <i>tomato</i>)† ‡ Gray mold (<i>Botrytis cinerea</i>) Powdery mildew† (<i>Leveillula</i> , <i>Oidiopsis</i> , <i>Erysiphe</i> , and <i>Sphaerotheca</i> spp.) Early blight (<i>Alternaria solani</i>)† Late blight (<i>Phytophthora infestans</i>)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ‡ Tank mix or rotate with copper-based fungicides at label rates for improved control.
“Damping off,” seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp. Southern blight (<i>Sclerotium rolfsii</i>)†**	See instructions for “Soil application.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ** Not for use in California.

Globe Artichoke**	
Target disease/pathogen (bacteria & fungi)	Additional information
Black root/crown rot (<i>Alternaria</i> spp.) Bacterial leaf blight (<i>Xanthomonas campestris</i>) Downy mildew (<i>Peronospora</i> spp.) Powdery mildew (<i>Erysiphe</i> spp.) Gray mold (<i>Botrytis</i> spp.) Black leg /bacterial soft rot (<i>Erwinia carotovora</i>) Early blight (<i>Alternaria solani</i>)† Late blight (<i>Phytophthora infestans</i>)† Bacterial crown rot (<i>Erwinia chrysanthemi</i>) Ramulana leaf spot (<i>Ramularia cynarae</i>) Verticillium wilt (<i>Verticillium dahlia</i>)	** Not for use in California. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.
Black scurf (<i>Rhizoctonia solani</i>) Cavity spot (<i>Pythium</i> spp.) “Damping off,” seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for “Soil application.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. For treatment of horseradish roots immediately before transplanting: immerse bare roots (individually or in bunches) for 10 seconds in a suspension of 1 to 2 pints of product per gallon of water.

Hemp	
Target disease/pathogen (bacteria & fungi)	Additional information
Anthracnose (<i>Colletotrichum</i> spp.) Brown blight (<i>Alternaria alternata</i>) Brown leaf spot and stem canker (<i>Ascochyta</i> spp.) Gray mold (<i>Botrytis cinerea</i>) Hemp leaf spot (<i>Bipolaris</i> sp.) Powdery mildew (<i>Leveillula</i> and <i>Sphaerotheca</i> spp.) White leaf spot (<i>Phomopsis ganjae</i>) Yellow leaf spot (<i>Septoria</i> spp.) Olive leaf spot (<i>Cercospora cannabis</i>) Stemphylium leaf and stem spot (<i>Stemphylium botryosum</i>) Bacterial blight (<i>Pseudomonas cannabina</i>) Xanthomonas leaf spot (<i>Xanthomonas campestris</i>)	
“Damping off,” seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , <i>Botrytis</i> , <i>Verticillium</i> spp. Charcoal rot (<i>Macrophomina phaseolina</i>) Fusarium wilt, foot rot, stem canker (<i>Fusarium</i> spp.) Hemp canker (<i>Sclerotinia sclerotiorum</i>) Southern blight/southern stem blight (<i>Sclerotium rolfii</i>) Verticillium wilt (<i>Verticillium</i> spp.)	See instructions for “Soil application.”

Herbs – Fresh Leaves (Crop Subgroup 25A):
 Agrimony, fresh leaves; Amla, fresh leaves; Angelica, fresh leaves; Angelica, dahurian, fresh leaves; Applemint, fresh leaves; Avarum, fresh leaves; Balloon pea, fresh leaves; Balm, fresh leaves; Barrenwort, fresh leaves; Basil, fresh leaves; Basil, American, fresh leaves; Basil, Greek, fresh leaves; Basil, holy, fresh leaves; Basil, lemon, fresh leaves; Basil, Russian, fresh leaves; Bay, fresh leaves; Bearberry, fresh leaves; Bisonsgrass, fresh leaves; Blue mallow, fresh leaves; Boneset, fresh leaves; Borage, fresh leaves; Borage, Indian, fresh leaves; Burnet, fresh leaves; Burnet, garden, fresh leaves; Burnet, salad, fresh leaves; Butterbur, fresh leaves; Calamint, fresh leaves; Calamint, large-flower, fresh leaves; Calamint, lesser, fresh leaves; Calendula, fresh leaves; Caltrop, fresh leaves; Camomile (Chamomile), fresh leaves; Camomile (Chamomile), German, fresh leaves; Camomile (Chamomile), Roman, fresh leaves; Caraway, fresh leaves; Cat's claw, fresh leaves; Catnip, fresh leaves; Catnip, Japanese, fresh leaves; Celandine, greater, fresh leaves; Celandine, lesser, fresh leaves; Centaury, fresh leaves; Chaste tree, fresh leaves; Chaste tree, Chinese, fresh leaves; Chinese blackberry, fresh leaves; Chinese foxglove, fresh leaves; Cicely, sweet, fresh leaves; Clary, fresh leaves; Coriander, Bolivian, fresh leaves; Coriander, Vietnamese, fresh leaves; Costmary, fresh leaves; Creat, fresh leaves; Culantro, fresh leaves; Curry leaf, fresh leaves; Curryplant, fresh leaves; Cut leaf, fresh leaves; Damiana, fresh leaves; Dokudami, fresh leaves; Echinacea, fresh leaves; Epazote, fresh leaves; Eucommia, fresh leaves; Evening primrose, fresh leaves; Eyebright, fresh leaves; Fennel, common, fresh leaves; Fennel, Spanish, fresh leaves; Fenugreek, fresh leaves; Feverfew, fresh leaves; Field pennycress, fresh leaves; Flowers, edible, fresh, multiple species; Fumitory, fresh leaves; Galbanum, fresh leaves; Galega, fresh leaves; Gambir, fresh leaves; Geranium, fresh leaves; Geranium, lemon, fresh leaves; Geranium, rose, fresh leaves; Germander, golden, fresh leaves; Goldenrod, European, fresh leaves; Goldenseal, fresh leaves; Gotu kola, fresh leaves; Greater periwinkle, fresh leaves; Guayusa, fresh leaves; Gumweed, fresh leaves; Gymnema, fresh leaves; Gypsywort, fresh leaves; Hawthorn, fresh leaves; Heal-all, fresh leaves; Hemp nettle, fresh leaves; Honewort, fresh leaves; Honeybush, fresh leaves; Horehound, fresh leaves; Horsemint, fresh leaves; Horsetail, fresh leaves; Hyssop, fresh leaves; Hyssop, anise, fresh leaves; Indian tobacco, fresh leaves; Ironwort, fresh leaves; Ivy, fresh leaves; Jamaica dogwood, fresh leaves; Jasmine, fresh leaves; Labrador tea, fresh leaves; Lavender, fresh leaves; Lemon verbena, fresh leaves; Lemongrass, fresh leaves; Lovage, fresh leaves; Love-in-a-mist, fresh leaves; Mamaki, fresh leaves; Marigold, fresh leaves; Marigold, African, fresh leaves; Marigold, Aztec, fresh leaves; Marigold, French, fresh leaves; Marigold, Irish lace, fresh leaves; Marigold, licorice, fresh leaves; Marigold, Mexican mint, fresh leaves; Marigold, signet, fresh leaves; Marjoram, fresh leaves; Marjoram, pot, fresh leaves; Marjoram, sweet, fresh leaves; Marshmallow, fresh leaves; Meadowsweet, fresh leaves; Mint, fresh leaves; Mint, corn, fresh leaves; Mint, Korean, fresh leaves; Monarda, fresh leaves; Moringa, fresh leaves; Motherwort, fresh leaves; Mountainmint, fresh leaves; Mountainmint, clustered, fresh leaves; Mountainmint, hoary, fresh leaves; Mountainmint, Virginia, fresh leaves; Mountainmint, whorled, fresh leaves; Mugwort, fresh leaves; Mulberry, white, fresh leaves; Mullein, fresh leaves; Mustard, hedge, fresh leaves; Nasturtium, fresh leaves; Nasturtium, bush, fresh leaves; Nasturtium, garden, fresh leaves; Nettle, stinging, fresh leaves; Oregano, fresh leaves; Oregano, Mexican, fresh leaves; Oregano, Puerto Rico, fresh leaves; Oswego tea, fresh leaves; Pandan leaf, fresh leaves; Pansy, fresh leaves; Paracress, fresh leaves; Partridge berry, fresh leaves; Patchouli, fresh leaves; Pennyroyal, fresh leaves; Pepper leaf, black, fresh leaves; Peppermint, fresh leaves; Perilla, fresh leaves; Pill bearing spurge, fresh leaves; Pipsissewa, fresh leaves; Plantain, common, fresh leaves; Rooibos, fresh leaves; Rose, fresh leaves; Rosemary, fresh leaves; Sage, fresh leaves; Sage, Greek, fresh leaves; Sage, Spanish, fresh leaves; Sage, white, fresh leaves; Savory, summer, fresh leaves; Savory, winter, fresh leaves; Senna, fresh leaves; Siberian fir, fresh leaves; Skullcap, fresh leaves; Small flower willow head, fresh leaves; Sorrel, fresh leaves; Sorrel, French, fresh leaves; Sorrel, garden, fresh leaves; Southernwood, fresh leaves; Spearmint, fresh leaves; Spearmint, Scotch, fresh leaves; Spilanthes, fresh leaves; Spotted beebalm, fresh leaves; St. John's Wort, fresh leaves; Stevia, fresh leaves; Stoneroot, fresh leaves; Swamp leaf, fresh leaves; Tansy, fresh leaves; Tarragon, fresh leaves; Thuja, fresh leaves; Thyme, fresh leaves; Thyme, creeping, fresh leaves; Thyme, lemon, fresh leaves; Thyme, mastic, fresh leaves; Toon, Chinese, fresh leaves; Toothed clubmoss, fresh leaves; Trailing arbutus, fresh leaves; Vasaka, fresh leaves; Verbena, blue, fresh leaves; Veronica, fresh leaves; Violet, fresh leaves; Watermint, fresh leaves; Waterpepper, fresh leaves; Wild bergamot, fresh leaves; Wintergreen, fresh leaves; Wood betony, fresh leaves; Woodruff, fresh leaves; Wormwood, fresh leaves; Wormwood, Roman, fresh leaves; Yarrow, fresh leaves; Yellow gentian, fresh leaves; Yerba santa, fresh leaves; Yomogi, fresh leaves; Cultivars, varieties, and hybrids of these commodities.

Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildews (<i>Oidium</i> spp. and others) Bacterial diseases (<i>Erwinia</i> , <i>Xanthomonas</i> , and <i>Pseudomonas</i> spp.) Rusts (<i>Puccinia</i> spp. and others)	
Downy mildews (<i>Peronospora</i> spp. and others)† Leaf spots (<i>Alternaria</i> , <i>Septoria</i> , <i>Colletotrichum</i> , and <i>Cercospora</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off" and root or crown diseases caused by <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Pythium</i> , <i>Phytophthora</i> , and/or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Hops	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Sphaerotheca macularis</i>) Downy mildew (<i>Pseudoperonospora humuli</i>)	See instructions for "Foliar application" or "Chemigation."
Fusarium wilt, foot rot, stem canker (<i>Fusarium</i> spp.)*	See instructions for "Soil application" or "Chemigation."

{ } Symbolizes explanatory text to the reviewer
 [] Indicates optional text

Leafy Vegetables (Crop Group 4-16):	
Amaranth, Chinese; amaranth, leafy; arugula; aster, Indian; blackjack; broccoli, Chinese; broccoli raab; cabbage, abyssinian; cabbage, Chinese, bok choy; cabbage, seakale; cat's whiskers; cham-chwi; cham-na-mul; chervil, fresh leaves; chipilin; chrysanthemum, garland; cilantro, fresh leaves; collards; corn salad; cosmos; cress, garden; cress, upland; dandelion, leaves; dang-gwi, leaves; dillweed; dock; dol-nam-mul; ebolo; endive; escarole; fameflower; feather cockscomb; Good King Henry; good king henry; hanover salad; huazontle; jute, leaves; kale; lettuce, bitter; lettuce, head; lettuce, leaf; maca, leaves; mizuna; mustard greens; orach; parsley, fresh leaves; plantain, buckhorn; primrose, English; purslane, garden; purslane, winter; radicchio; radish, leaves; rape greens; rocket, wild; shepherd's purse; spinach; spinach, Malabar; spinach, New Zealand; spinach, tanier; Swiss chard; turnip greens; violet, Chinese, leaves; watercress; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
Downy mildew (<i>Bremia lactucae</i> , <i>Peronospora</i> spp.)† Powdery mildew (<i>Golovinomyces</i> (<i>Erysiphe</i>) <i>cichoracearum</i>)† Bacterial blights Leaf spots (<i>Cercospora</i> spp.) <i>Botrytis</i> spp. Rusts (<i>Puccinia</i> spp.)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Head and leaf drop (<i>Sclerotinia</i> spp.) Pink rot (<i>Sclerotinia sclerotiorum</i>) White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp. Bottom rot (<i>Rhizoctonia solani</i>)	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Legume Vegetables (Succulent or Dried) (Crop Group 6):	
Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (<i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava bean); chickpea (garbanzo bean); guar; jackbean; lablab bean (hyacinth bean); lentil; pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean.	
Target disease/pathogen (bacteria & fungi)	Additional information
Gray mold (<i>Botrytis cinerea</i>) Powdery mildew (<i>Microsphaera diffusa</i>) Rusts†, including <i>Uromyces appendiculatus</i> , <i>Puccinia</i> spp., and Asian soybean rust (<i>Phayospora pachyrhizi</i>) Ascochyta blight (<i>Ascochyta rabiei</i>) Halo blight (<i>Pseudomonas syringae</i> pv. <i>Phaseolicola</i>) Common bacterial blight (<i>Xanthomonas axonopodis</i> pv. <i>Phaseoli</i>) Bacterial brown spot (<i>Pseudomonas syringae</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Legume Vegetables (Succulent or Dried) (Crop Group 6):	
Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); bean (<i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); broad bean (fava bean); chickpea (garbanzo bean); guar; jackbean; lablab bean (hyacinth bean); lentil; pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-podded pea, English pea, field pea, garden pea, green pea, snowpea, sugar snap pea); pigeon pea; soybean; soybean (immature seed); sword bean.	
Target disease/pathogen (bacteria & fungi)	Additional information
White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Non-Grass Animal Feeds (Forage, Fodder, Straw and Hay)** (Crop Group 18):	
Alfalfa; bean, velvet; clover (<i>Trifolium</i> spp., <i>Melilotus</i> spp.); kudzu; lespedeza; lupin; sainfoin; trefoil; vetch; vetch, crown; vetch, milk.	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia</i> spp.)† Rice blast (<i>Pyricularia oryzae</i>) Sheath spot/blight (<i>Rhizoctonia</i> and <i>Thanatephorus</i> spp.) Smut (<i>Tilletia barclayana</i>) Bacterial blight/streak (<i>Xanthomonas</i> spp.) Stem rots (<i>Magnaporthe</i> and <i>Sclerotium</i> spp.) <i>Cercospora</i> leaf spot Brown rot/leaf spots/smuts (<i>Ceratobasidium</i> , <i>Cochliobolus</i> , <i>Dreschlera</i> , and <i>Entyloma</i> spp.) Bacterial wilt (<i>Clavibacter michiganensis</i>) Spring black stem (<i>Ascochyta medicaginicola</i>) White mold (<i>Sclerotinia</i> Stem Rot; <i>Sclerotinia sclerotiorum</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ** Not for use in California.
<i>Aphanomyces</i> spp. <i>Fusarium</i> spp. <i>Macrophomina</i> spp. <i>Phytophthora</i> spp. <i>Pythium</i> spp. <i>Rhizoctonia</i> spp. <i>Verticillium</i> spp.	See instructions for "Soil application."

Oilseed Crops** (Crop Group 20):	
Borage; calendula; castor oil plant; Chinese tallowtree; cottonseed; crambe; cuphea; echium; euphorbia; evening primrose; flax seed; gold of pleasure; hare's ear mustard; jojoba; lesquerella; lunaria; meadowfoam; milkweed; mustard seed; niger seed; oil radish; poppy seed; rapeseed; rose hip; safflower; sesame; stokes aster; sunflower; sweet rocket; tallowwood; tea oil plant; vernonia; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
White mold/Stem rot (<i>Sclerotinia sclerotiorum</i>) Rusts†, including <i>Uromyces appendiculatus</i> , <i>Puccinia</i> spp., and Asian soybean rust (<i>Phayospora pachyrhizi</i>) Bacterial Speck (<i>Pseudomonas syringae</i> <i>pv. glycinea</i>) Bacterial Pustule (<i>Xanthomonas</i> spp.) Brown Spot (<i>Septoria glycines</i>) Cercospora Leaf Spot Pod and Stem Blights (<i>Diaporthe</i> and <i>Phomopsis</i> spp.) Downy Mildew (<i>Peronospora mansherica</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ** Not for use in California.

Peanuts	
Target disease/pathogen (bacteria & fungi)	Additional information
White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.
<i>Botrytis</i> spp. Rusts (<i>Puccinia</i> spp.) Leaf spots (<i>Cercospora</i> and <i>Cercosporidium</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Pome Fruit (Crop Group 11-10):	
Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Podosphaera leucotricha</i>)	Make first application at or before tight cluster if conditions favor disease development. Repeat at 7-10 day intervals through the second cover spray or longer on susceptible varieties or if environmental conditions favor rapid disease development.
Flyspeck (<i>Zygothia jamaicensis</i>)** Sooty blotch disease complex** Brooks spot (<i>Mycosphaerella pomi</i>)** Bot rot/white rot (<i>Botryosphaeria dothidea</i>)** Bitter rot (<i>Colletotrichum</i> spp.) Cedar apple rust (<i>Gymnosporangium juniperi-virginiana</i>)**	Begin applications before bloom when environmental conditions favor disease development, repeating at 7 to 14 day intervals or as needed. Control may be enhanced by addition of a surfactant to improve spray coverage. Use only surfactants known to be safe for use on the crop and for which such use is allowed. ** Not for use in California.

Pome Fruit (Crop Group 11-10): Apple; azarole; crabapple; loquat; mayhaw; medlar; pear; pear, Asian; quince; quince, Chinese; quince, Japanese; tejocote; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Fire blight (<i>Erwinia amylovora</i>)†	Use as a rotation partner in a fire blight control program. Begin applications at 1-5% open blossoms and repeat every 3-7 days as necessary until petal fall, when intervals can be increased to 7 days. This product can also be used in summer “cover spray” applications to control the shoot blight phase of fire blight and summer diseases. Can be mixed with copper fungicides to improve control. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Scab (<i>Venturia</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for “Root diseases” and “Collar rots.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Root and Tuber Vegetables (Except Sugar Beets) (Crop Group 1): Arracacha; arrowroot; artichoke, Chinese; artichoke, Jerusalem; beet, garden; burdock, edible; canna, edible; carrot; cassava, bitter and sweet; celeriac (celery root); chayote (root); chervil, turnip-rooted; chicory; chufa; dasheen (taro); ginger; ginseng; horseradish; leren; parsley, turnip-rooted; parsnip; potato; radish; radish, oriental (daikon); rutabaga; salsify (oyster plant); salsify, black; salsify, Spanish; skirret; sweet potato; tanier (cocoyam); turmeric; turnip; yam bean; yam, true.	
Target disease/pathogen (bacteria & fungi)	Additional information
Except Sugar Beets	
Black root/crown rot (<i>Alternaria</i> spp.) Bacterial leaf blight (<i>Xanthomonas campestris</i>) Downy mildew (<i>Peronospora</i> spp.) Powdery mildew (<i>Erysiphe</i> spp.) Gray mold (<i>Botrytis</i> spp.) Black leg /bacterial soft rot (<i>Erwinia carotovora</i>)** Early blight (<i>Alternaria solani</i>)† Late blight (<i>Phytophthora infestans</i>)†	** Not for use in California. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.
Black scurf (<i>Rhizoctonia solani</i>) Cavity spot (<i>Pythium</i> spp.) “Damping off,” seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for “Soil application.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. For treatment of horseradish roots immediately before transplanting: immerse bare roots (individually or in bunches) for 10 seconds in a suspension of 1 to 2 pints of product per gallon of water.
Sugar Beets	
Leaf spots (<i>Cercospora</i> and <i>Ramularia</i> spp.) Powdery mildew (<i>Erysiphe</i> spp.) Rust (<i>Uromyces betae</i>)	** Not for use in California.

{ } Symbolizes explanatory text to the reviewer
 [] Indicates optional text

Spices (Crop Group 26):	
<p>Ajowan, seed; Alder buckhorn; Allspice; Ambrette, seed; Amla, seed; Angelica, dahurian, seed; Angelica, seed; Angostura, bark; Anise pepper; Anise, seed; Anise, star; Annatto, seed; Asafoetida; Ashwagandha, fruit; Autumn crocus; Balsam, Peruvian; Barberry, bark; Batavia-cassia, bark; Batavia-cassia, fruit; Belleric myrobalan; Betel vine; Birch, bark; Bisnaga, seed; Bitterwood; Black bread weed; Bloodroot; Blue mallee; Blushwood, seed; Boldo, leaf; Buchu; Calamus root; Candlebush; Canella, bark; Caper buds; Caper spurge, seed; Caraway, black; Caraway, fruit; Cardamom, black; Cardamom, Ethiopian; Cardamom, green; Cardamom, Nepal; Cardamom-amomum; Cascara sagrada; Cassia, bark; Cassia, Chinese, bark; Cassia, Chinese, fruit; Cassia, fruit; Cat's claw, bark; Catechu, bark; Celery, seed; Chaste tree, berry; Chaste tree, Chinese, roots; Chervil, seed; Chinese hawthorn; Chinese nutmeg tree; Chinese wineberry, fruit; Chinese-pepper; Cinnamon, bark; Cinnamon, fruit; Cinnamon, Saigon, bark; Cinnamon, Saigon, fruit; Clove buds; Clusterleaf; Comfrey; Copaiba; Coptis; Coriander, fruit; Coriander, seed; Cotton, bark; Crampbark; Cubeb, seed; Culantro, seed; Culvers root; Cumin; Cumin, black; Dill, seed; Dorrigo pepper, berry; Dorrigo pepper, leaf; Dragon blood; Echinacea, seed; Epimedium; Eucalyptus; Eucommia, bark; European beech; Felyt germander; Fennel flower, seed; Fennel, common, fruit; Fennel, common, seed; Fennel, Florence, fruit; Fennel, Florence, seed; Fenugreek, seed; Fingerroot; Flame lily, seed; Frankincense; Frankincense, Indian; Fringetree, bark; Galbanum, resin; Gambooge; Grains of paradise; Grains of Selim; Guaiac; Guarana; Guggul; Gum Arabic; Gum ghatti; Gum karaya; Gum tragacanth; Haw, black; Honewort, seed; Imperatoria; Indian tobacco, seed; Iva; Jalap; Jamaica dogwood, bark; Juniper berry; Kaffir lime, leaf; Kewra; Kokam; Linden, leaf; Lovage, seed; Mace; Magnolia, bark; Mahaleb; Malabar cardamom; Malabar-tamarind; Malabathrum; Mastic; Micromeria, white; Milk thistle; Mioga; Miracle fruit; Mistletoe; Mojave yucca; Muira puama; Mustard, black; Mustard, brown; Mustard, seed; Mustard, white; Myrrh; Myrrh, bisabol; Myrtle, anise; Myrtle, leaf; Myrtle, lemon; Nasturtium, bush, pods; Nasturtium, garden, pods; Nasturtium, pods; Nettle, stinging, seed; Nutmeg; Osha; Pepper, black; Pepper, Indian long; Pepper, Javanese long; Pepper, leaf; Pepper, pink; Pepper, Sichuan; Pepper, white; Pepperbush, berry; Pepperbush, leaf; Peppercorn, green; Peppertree; Peppertree, Peruvian; Perilla, seed; Phellodendron; Pine, maritime; Poppy, seed; Prickly ash, Chinese; Prickly ash, Southern, bark; Pygeum; Qing hua jiao; Quassia, bark; Quebracho, bark; Quillaja; Quinine; Rauwolfia, bark; Resin spurge; Rue; Saffron crocus; Sandalwood, seed; Sassafras, bark; Sassafras, leaf; Saunders, red; Saw palmetto; Sesame, seed; Silktree, bark; Simaruba, bark; Skunk cabbage, root; Slippery elm; Stemona, root; Suma; Sumac, fragrant; Sumac, smooth, leaf; Taheebo, bark; Tamarind, seed; Tasmanian pepper, berry; Tasmanian pepper, leaf; Threeleaf caper; Tsaoko; Vanilla; Wattleseed; White willow; Willow; Witch hazel; Yaw root; Yellow gentian, roots; Yohimbe; Cultivars, varieties, and hybrids of these commodities.</p>	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildews (<i>Oidium</i> spp. and others) Bacterial diseases (<i>Erwinia</i> , <i>Xanthomonas</i> , and <i>Pseudomonas</i> spp.) Rusts (<i>Puccinia</i> spp. and others)	
Downy mildews (<i>Peronospora</i> spp. and others)† Leaf spots (<i>Alternaria</i> , <i>Septoria</i> , <i>Colletotrichum</i> , and <i>Cercospora</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
“Damping off” and root or crown diseases caused by <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Pythium</i> , <i>Phytophthora</i> , and/or <i>Verticillium</i> † spp.	See instructions for “Soil application.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Stalk and Stem Vegetables (Crop Subgroup 22A):	
<p>Agave; aloe vera; asparagus; bamboo, shoots; celtuce; fennel, Florence, fresh leaves, and stalk; fern, edible, fiddlehead; kale, sea; kohlrabi; palm hearts; prickly pear, pads; prickly pear, Texas, pads; cultivars, varieties, and hybrids of these commodities.</p>	
Target disease/pathogen (bacteria & fungi)	Additional information
White mold (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist. Alternatively, apply at early flowering and again at petal fall.

Stalk and Stem Vegetables (Crop Subgroup 22A):	
Agave; aloe vera; asparagus; bamboo, shoots; celtsuce; fennel, Florence, fresh leaves, and stalk; fern, edible, fiddlehead; kale, sea; kohlrabi; palm hearts; prickly pear, pads; prickly pear, Texas, pads; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
<i>Botrytis</i> spp. Rusts (<i>Puccinia</i> spp.) Leaf spots (<i>Cercospora</i> and <i>Cercosporidium</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp.	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Stone Fruit (Crop Group 12-12):	
Apricot; apricot, Japanese; capulin; cherry, black; cherry, Nanking; cherry, sweet; cherry, tart; Jujube, Chinese; nectarine; peach; plum; plum, American; plum, beach; plum, Canada; plum, cherry; plum, Chickasaw; plum, Damson; plum, Japanese; plum, Klamath; plum, prune; plumcot; sloe; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Powdery mildew (<i>Sphaerotheca</i> and <i>Podosphaera</i> spp.)†	Make first application at popcorn stage and repeat every 7 days. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Bacterial canker (<i>Pseudomonas</i> spp.) Peach leaf curl (<i>Taphrina deformans</i>)	
Brown rot blossom blight (<i>Monilinia laxa</i>)	Start applying at early bloom stage and repeat every 7 days through petal fall.
Brown rot (<i>Monilinia fructicola</i>)†	Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections. † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Gray mold (<i>Botrytis cinerea</i>)	Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections.
Bacterial leaf spot (<i>Xanthomonas arbuticola</i> pv. <i>pruni</i>)‡ Rusty spot (<i>Podosphaera leucotricha</i>)‡	‡Tank mix or rotate with copper-based fungicides at label rates for improved control.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for "Root diseases" and "Collar rots." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Tobacco	
Target disease/pathogen (bacteria & fungi)	Additional information
Angular leaf spot (<i>Pseudomonas</i> spp.) Anthracnose (<i>Colletotrichum</i> and <i>Glomerella</i> spp.) Blue mold or downy mildew (<i>Peronospora</i> spp.)† Brown spot (<i>Alternaria</i>) Gray mold (<i>Botrytis cinerea</i>) Powdery mildew (<i>Erysiphe cichoracearum</i>) Target spot (<i>Rhizoctonia solani</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Barn spot/ frog-eye leaf spot (<i>Cercospora nicotianae</i>)	Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections.

Tobacco	
Target disease/pathogen (bacteria & fungi)	Additional information
Collar rot (<i>Sclerotinia sclerotiorum</i>)	Apply at or immediately following planting (but before plant emergence) as a banded seedline treatment 4 to 6 inches wide. Make second application at thinning or cultivation in sufficient water and multiple nozzles to ensure thorough coverage of lower leaves and surrounding soil surface. Incorporation with light irrigation after application may improve disease control. Repeat at 10-14 day intervals if conditions promoting disease persist.
"Damping off," seedling blights, and root or crown diseases caused by <i>Pythium</i> , <i>Rhizoctonia</i> , <i>Fusarium</i> , <i>Oplidium</i> , <i>Phytophthora</i> , or <i>Verticillium</i> † spp. Charcoal rot (<i>Macrophomina phaseolina</i>) Black root rot (<i>Thielaviopsis basicola</i>) Black shank (<i>Phytophthora</i> spp.)† Southern blight/southern stem rot (<i>Sclerotium rolfsii</i>)†	See instructions for "Soil application." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Tree Nuts (Crop Group 14-12):	
African nut-tree; almond; beechnut; Brazil nut; Brazilian pine; bunya; bur oak; butternut; Cajou nut; candlenut; cashew; chestnut; chinquapin; coconut; coquito nut; dika nut; ginkgo; Guiana chestnut; hazelnut (filbert); heartnut; hickory nut; Japanese horse-chestnut; macadamia nut; mongongo nut; monkey-pot; monkey puzzle nut; Okari nut; Pachira nut; peach palm nut; pecan; pequi; Pili nut; pine nut; pistachio; Sapucaia nut; tropical almond; walnut, black; walnut, English; yellowhorn; cultivars, varieties, and/or hybrids of these.	
Target disease/pathogen (bacteria & fungi)	Additional information
Walnut blight (<i>Xanthomonas campestris</i>)	Begin applications at or before pistillate bloom, repeating every 7-10 days. Apply before rainfall if possible, and tank mix or rotate with a copper-based bactericide registered for such use for improved control.
Anthracnose (<i>Colletotrichum acutatum</i>)† Shot hole (<i>Wilsonomyces carpophilus</i>) † Brown rot (<i>Monilinia</i> spp.)†	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Bacterial canker (<i>Pseudomonas syringae</i>)	
Pecan scab (<i>Cladosporium caryigenum</i>)†‡**	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use. ‡Tank mix or rotate with copper-based fungicides at label rates for improved control. ** Not for use in California.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for "Root diseases" and "Collar rots." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Tropical and Subtropical, Small Fruits, Edible Peel (Crop Subgroup 23A):	
Acerola; african plum; agritos; almondette; appleberry; arbutus berry; bayberry, red; bignay; breadnut; cabeluda; carandas-plum; ceylon iron wood; ceylon olive; cherry-of-the-rio-grande; chinese olive, black; chinese olive, white; chirauli-nut; cocoplum; desert-date; false sandalwood; fragrant manjack; gooseberry, abyssinian; gooseberry, ceylon; gooseberry, otaheite; governor's plum; grumichama; guabiroba; guava berry; guava, brazilian; guava, costa rican; guayabillo; illawarra plum; indian-plum; jamaica-cherry; jambolan; kaffir-plum; kakadu plum; kapundung; karanda; lemon aspen; mombin, yellow; monos plum; mountain cherry; olive; persimmon, black; pitomba; plum-of-martinique; rukam; rumberry; sea grape; sete-capotes; silver aspen; water apple; water pear; water berry; wax jambu; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
White mold/Stem rot (<i>Sclerotinia sclerotiorum</i>) Rusts†, including <i>Uromyces appendiculatus</i> , <i>Puccinia</i> spp., and Asian soybean rust (<i>Phayospora pachyrhizi</i>) Bacterial Speck (<i>Pseudomonas syringae</i> pv. <i>glycinea</i>) Bacterial Pustule (<i>Xanthomonas</i> spp.) Brown Spot (<i>Septoria glycines</i>) <i>Cercospora</i> Leaf Spot Pod and Stem Blights (<i>Diaporthe</i> and <i>Phomopsis</i> spp.) Downy Mildew (<i>Peronospora mansherica</i>)	† Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

Tropical and Subtropical Fruits – Medium to Large Fruit, Smooth, Inedible Peel (Crop Subgroup 24B):	
Abiu; akee apple; avocado; avocado, Guatemalan; avocado, Mexican; avocado, West Indian; bacury; banana; banana, dwarf; binjai; canistel; cupuacu; etambe; jatoba; kei apple; langsat; lanjut; lucuma; mabolo; mango; mango, horse; mango, Saipan; mangosteen; paho; papaya; pawpaw, common; pelipisan; pequi; pequia; persimmon, American; plantain; pomegranate; poshte; quandong; sapote, black; sapote, green; sapote, white; sataw; screw-pine; star apple; tamarind-of-the-Indies; wild loquat; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
Except Pomegranate	
Anthraxnose (<i>Colletotrichum</i> spp.) Scab (<i>Sphaceloma perseae</i>) Bacterial canker (<i>Xanthomonas campestris</i>)	For avocado and mango: Apply at budbreak and repeat on 14-21 day interval as needed through harvest. For papaya and pineapple: Apply at flowering and repeat on 14-21 day interval as needed through harvest.
Sigatoka (<i>Mycosphaerella fijiensis</i>)	Apply at first appearance of leaves and repeat at 7-21 day intervals as needed, in sufficient water to obtain thorough coverage of foliage. Tank mix with spray oil or other registered fungicides for improved control.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for "Root diseases" and "Collar rots." † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.
Pomegranate	
Leaf and fruit spots (<i>Cercospora</i> , <i>Gloeosporium</i> and <i>Pestalotia</i> spp.)‡	‡Tank mix or rotate with copper-based fungicides at label rates for improved control.
Fruit rots (<i>Alternaria</i> , <i>Botrytis</i> , and other spp.)	Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections.
Powdery mildew (<i>Sphaerotheca pannosa</i>)	

Tropical and Subtropical Fruits – Medium to Large Fruit, Rough or Hairy, Inedible Peel (Crop Subgroup 24C):	
Atemoya; biriba; breadfruit; champedak; cherimoya; custard apple; durian; elephant-apple; ilama; jackfruit; karuka; mammy-apple; marang; marmaladebox; monkey-bread tree; nicobar-breadfruit; pandanus; pineapple; pulasan; rambutan; sapodilla; sapote, mamey; soncoya; soursop; sugar apple; sun sapote; cultivars, varieties, and hybrids of these commodities.	
Target disease/pathogen (bacteria & fungi)	Additional information
Anthracnose (<i>Colletotrichum</i> spp.) Scab (<i>Sphaceloma perseae</i>) Bacterial canker (<i>Xanthomonas campestris</i>)	For avocado and mango: Apply at budbreak and repeat on 14-21 day interval as needed through harvest. For papaya and pineapple: Apply at flowering and repeat on 14-21 day interval as needed through harvest.
Sigatoka (<i>Mycosphaerella fijiensis</i>)	Apply at first appearance of leaves and repeat at 7-21 day intervals as needed, in sufficient water to obtain thorough coverage of foliage. Tank mix with spray oil or other registered fungicides for improved control.
Root and collar rots† caused by <i>Phytophthora</i> , <i>Pythium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , <i>Armillaria</i>	See instructions for “Root diseases” and “Collar rots.” † Suppression only. For improved control, mix or rotate with chemical fungicide approved for such use.

{California use restrictions (“** Not for use in California”) may be added to the above listing of crops and/or pests as required by the California Department of Pesticide Regulation.}

APPLICATION INSTRUCTIONS:

Field-grown (outdoor) crops:

For root diseases: Apply **1 to 2 quarts** of product per acre as a banded soil spray or drench, or as chemigated injection via microsprinkler, drip (elevated, buried or ground-lay) or other irrigation systems. Apply in sufficient water or irrigate immediately after application to move the product to the root zone. Begin applications in early spring, timed for root flush and early shoot growth. Continue applications at 4-6 week intervals through fall root flush.

For collar rots: Apply as drench or spray at the base of the trunk, covering the soil contact zone.

Foliar application: For control of diseases on foliage, flowers, fruit, or other above-ground parts of plants: Mix product in water and apply as a spray at a rate of **[0.5][1] to [3][6] quarts** of product per acre in sufficient water to achieve thorough coverage of the crop canopy with minimal runoff. Begin applications at crop emergence, transplanting, or when conditions are conducive to development of disease. Repeat application every 3 to 10 days as needed, for as long as conditions favor disease development. Lower rates ([0.5][1] [to] [3] quart[s] per acre) may be applied under light to moderate disease pressure, to smaller (e.g. newly-emerged) plants, or when this product is used in a tank mix with other fungicides whose labels allow such use. Under severe disease pressure, or when environmental conditions and plant stage are conducive to rapid disease development, use higher label rates ([3][2] to [3][6] quarts/acre), apply more frequently (every 3-7 days), and mix or rotate this product with other fungicides for improved performance.

Soil application:

For control of soil-borne diseases infecting seeds, seedlings, roots, crown, stems, or other plant parts below ground or in contact with soil: Apply product at **[0.5 to 4.5 pints][8 to 72 ounces] per acre.**

Mix the required amount in sufficient water to apply by one of the following methods:

- Soil drench applied to transplants in flats or pots in the greenhouse or nursery any time prior to transplanting (see additional drench instructions under “Nurseries, greenhouses, shade houses, and ornamental plants” below).
- Soil drench at transplanting, using a “water wheel” injector, spray nozzles/hoses, or other method to drench each root ball and/or planting hole.
- Soil or seedline drench, or banded spray (in-furrow) at planting. See the section on “Banded (in-furrow) application” below for additional instructions.

Follow-up (post-planting) preventative applications can be made every 2-4 weeks by one or more of the following methods, if needed:

- Drip (trickle) or any type of sprinkler irrigation, any time after planting or transplanting. See Chemigation Instructions for additional information.
- Spray directly onto the soil surface and/or lower plant parts. If targeting root disease, follow immediately with sufficient overhead sprinkler irrigation to move product to the root zone.
- Injection directly into the rooting zone using shanks or similar equipment.

Lower rates ([0.5 to 2 pints][8 to 32 ounces]) of product per acre may be applied under light disease pressure, to smaller plants, or when this product is used in a tank mix with other fungicides whose labels allow such use. Under moderate to severe disease pressure, or when environmental conditions and plant stage are conducive to rapid disease development, use higher label rates ([2 - 4.5 pints per acre][32 to 72 ounces]), apply more frequently (every 2 weeks), and mix or rotate this product with other fungicides for improved performance.

*For control of soil-borne nematodes**:* Apply at a rate of **[1 to 2 quarts][2 to 4 pints][32 to 64 ounces] per acre** as a part of a soil disease management program for nematode suppression.

Mix the required amount in sufficient water to apply by one of the following methods:

- Soil drench applied to transplants in flats or pots in the greenhouse or nursery any time prior to transplanting (see additional drench instructions under “Nurseries, greenhouses, shade houses, and ornamental plants” below).
- Soil drench at transplanting, using a “water wheel” injector, spray nozzles/hoses, or other method to drench each root ball and/or planting hole.
- Soil or seedline drench, or banded spray (in-furrow) at planting. See the section on “Banded (in-furrow) application” below for additional instructions.

Follow-up (post-planting) preventative applications can be made every 2-4 weeks by one or more of the following methods, if needed:

- Drip (trickle) or any type of sprinkler irrigation, any time after planting or transplanting. See Chemigation Instructions for additional information.
- Spray directly onto the soil surface and/or lower plant parts. If targeting root disease, follow immediately with sufficient overhead sprinkler irrigation to move product to the root zone.
- Injection directly into the rooting zone using shanks or similar equipment.

Banded (in-furrow) application: Use the table below (rate of product per acre) to determine the correct application rate in fluid ounces per 1,000 row feet based on row spacing and desired rate per acre. Mix the required amount of product in water and apply as banded spray (4” to 6” wide) or seedline drench centered over the planting furrow. Apply directly over seeds in the furrow just before they are covered with soil. The volume of water required per acre or per 1,000 row feet will depend on the application equipment used. Consult your local cooperative extension service if you need assistance calibrating band spraying equipment.

Rates for banded (in-furrow) application: Find desired application rate of product per acre in the left column. Read across that line to the correct row spacing indicated at the top to find the number of fluid ounces per 1,000 row feet that will provide the desired application rate per acre.

Product rate/acre		Space between rows (inches)														
Pt	fl oz	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
0.5	8	0.2	0.2	0.2	0.3	0.3	0.3	0.4	0.4	0.4	0.5	0.5	0.5	0.6	0.6	0.6
0.75	12	0.3	0.3	0.4	0.4	0.5	0.5	0.6	0.6	0.6	0.7	0.7	0.8	0.8	0.9	0.9
1.0	16	0.4	0.4	0.5	0.6	0.6	0.7	0.7	0.8	0.9	0.9	1.0	1.0	1.1	1.2	1.2
1.25	20	0.5	0.5	0.6	0.7	0.8	0.8	0.9	1.0	1.1	1.1	1.2	1.3	1.4	1.5	1.5
1.5	24	0.6	0.6	0.7	0.8	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.7	1.8
1.75	28	0.6	0.7	0.9	1.0	1.1	1.2	1.3	1.4	1.5	1.6	1.7	1.8	1.9	2.0	2.1
2.0	32	0.7	0.9	1.0	1.1	1.2	1.3	1.5	1.6	1.7	1.8	2.0	2.1	2.2	2.3	2.4
2.25	36	0.8	1.0	1.1	1.2	1.4	1.5	1.7	1.8	1.9	2.1	2.2	2.3	2.5	2.6	2.8
2.5	40	0.9	1.1	1.2	1.4	1.5	1.7	1.8	2.0	2.1	2.3	2.4	2.6	2.8	2.9	3.1
2.75	44	1.0	1.2	1.3	1.5	1.7	1.9	2.0	2.2	2.4	2.5	2.7	2.9	3.0	3.2	3.4
3.0	48	1.1	1.3	1.5	1.7	1.8	2.0	2.2	2.4	2.6	2.8	2.9	3.1	3.3	3.5	3.7
3.25	52	1.2	1.4	1.6	1.8	2.0	2.2	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.8	4.0
3.5	56	1.3	1.5	1.7	1.9	2.1	2.4	2.6	2.8	3.0	3.2	3.4	3.6	3.9	4.1	4.3
3.75	60	1.4	1.6	1.8	2.1	2.3	2.5	2.8	3.0	3.2	3.4	3.7	3.9	4.1	4.4	4.6
4.0	64	1.5	1.7	2.0	2.2	2.4	2.7	2.9	3.2	3.4	3.7	3.9	4.2	4.4	4.7	4.9
4.25	68	1.6	1.8	2.1	2.3	2.6	2.9	3.1	3.4	3.6	3.9	4.2	4.4	4.7	4.9	5.2
4.5	72	1.7	1.9	2.2	2.5	2.8	3.0	3.3	3.6	3.9	4.1	4.4	4.7	5.0	5.2	5.5

Hopper Box application: Apply at a rate of 1 quart per acre of seed in the planter or auger hopper-box. To mix, fill hopper-box to 1/2 full of seed. Spread 1/3 of the total amount of product evenly over the surface of the seed. Next, fill the hopper-box to 2/3 full of seed and spread 1/3 of the total amount of product evenly over the surface of the seed. Next, fill the hopper-box with the remaining seed and apply the remaining 1/3 of the total amount of product evenly over the surface of the seed. Thoroughly mix seed, being cautious that you do not damage the seed. Alternatively, apply at a rate of 1 quart per acre of seed as seed is augured from auger hopper box to planter hopper box. Use higher rates when there is a history of heavy *Rhizoctonia* pressure in the field or for higher levels of protection.

Nurseries, greenhouses, shadehouses, and ornamental plants:

Spray application: Mix **0.5 to 6 quarts of product per 100 gallons of water** and apply as a foliar spray of sufficient volume to wet the entire plant with minimal runoff. Begin preventative applications at plant emergence and repeat every 3-28 days as needed (every 3-7 days if disease pressure is high or environmental conditions are highly favorable to disease outbreak, 10-28 days under low pressure or less conducive conditions).

Drench application: Mix **0.5 to 4.5 pints of product per 100 gallons of water** and apply as a drench or coarse spray to soil or other growing media in pots, flats, plugs, trays, or planting beds, for control or suppression of soil-borne diseases of seedlings, cuttings, bedding plants, and transplants (including vegetables and other transplanted food crops). Make first application at or immediately before seeding, sticking, germination, or transplanting. Repeat applications every 14-28 days as needed. Transplants can be treated immediately before transplanting into field soils to protect against damping-off and other diseases that reduce plant establishment.

Cutting or root dip: Dip basal end of cuttings or bare roots (individually or in bunches) in a suspension of **1 to 2 pints of product per gallon of water**. Immerse for 5-10 seconds immediately before planting.

Chemigation: Mix **0.5 to 4.5 pints of product per 100 gallons of water** and apply via drip, handheld, or sprinkler irrigation systems. Refer to “Chemigation Instructions” for more details.

CROPS/USE SITES	DISEASES/PATHOGENS
Indoor, outdoor, and shade- or other cover-grown ornamental trees and shrubs, flowering plants, foliage plants, tropical plants, potted plants, potted or cut flowers, bedding plants, forestry seedlings, conifer production for reforestation, fruit trees, vegetables and other crops grown in greenhouses or nurseries, or other cover, interiorscapes, and landscapes	Powdery mildews caused by <i>Erysyphe</i> , <i>Podosphaera</i> , <i>Sphaerotheca</i> , <i>Oidium</i> , and <i>Golovinomyces</i> spp. Anthracnose (<i>Colletotrichum</i> spp.) Bacterial leaf spots caused by <i>Erwinia</i> , <i>Pseudomonas</i> , and <i>Xanthomonas</i> spp. Damping-off disease (<i>Rhizoctonia</i> , <i>Pythium</i> , <i>Fusarium</i> spp.) Late blight, blackeye, and root rots caused by <i>Phytophthora</i> spp. Gray mold and blight caused by <i>Botrytis cinerea</i> Black root rot (<i>Aspergillus</i> spp.) Black spot of roses (<i>Diplocarpon rosae</i>) Downy mildew (<i>Peronospora</i> spp.) Leaf spots caused by <i>Alternaria</i> , <i>Septoria</i> , <i>Cercospora</i> , <i>Entomosporium</i> , <i>Helminthosporium</i> , and <i>Myrothecium</i> spp.) Rust (<i>Puccinia</i> spp.) Scab (<i>Venturia</i> spp.) Root rot, bottom rot, or stem rot caused by <i>Rhizoctonia solani</i> <i>Sclerotinia</i> blight <i>Fusarium</i> wilts

Turfgrass application:

For control of foliar diseases, apply product at **1 to 4 fluid ounces per 1,000 square feet** as a ground-directed spray in sufficient water to provide thorough coverage. To control root and crown diseases in or on the soil, immediately follow the spray with sufficient overhead sprinkler irrigation to move the product into the root zone.

USE SITES/CROPS	DISEASES/PATHOGENS
Turf, sod, lawns, golf course (fairways, roughs, greens, tees), grass seed production Including but not limited to: Bluegrass, Bentgrass, Bermudagrass (common & hybrid), Dichondra, Fescue, Orchardgrass, <i>Poa annua</i> , St. Augustine grass, Ryegrass, <i>Zoysia</i> , mixtures, and other grasses or ornamental turf	Anthracnose (<i>Colletotrichum graminicola</i>) Brown patch (<i>Rhizoctonia solani</i>) Dollar spot (<i>Lanzia</i> and <i>Moellerodiscus</i> spp., formerly <i>Sclerotinia homeocarpa</i>) Powdery mildew (<i>Erysiphe graminis</i>) Rust (<i>Puccinia</i> spp.) Gray leaf spot (<i>Pyricularia grisea</i>) "Damping off" or seedling blights caused by <i>Pythium</i>

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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: Wastes resulting from the use of this product must be disposed of onsite or at an approved waste disposal facility.

Container Handling:

{Containers ≤5 gallons}

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 a 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

{Containers >5 gallons}

Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Turn the container over onto its other end and tip it back and forth several times. Empty the 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

{Bulk refillable containers}

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 a 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. When empty, return to point of sale or to the manufacturer.

CHEMIGATION INSTRUCTIONS

General information:

1. Apply product only through drip (trickle) irrigation (including micro-irrigation through spaghetti tubes or individual tubes) or sprinkler irrigation (including impact or microsprinklers, microjet, overhead boom, water gun, solid set, lateral move, end tow, side-roll, center pivot, or hand move, including mist-type systems); or with hand-held calibrated irrigation equipment (such as a hand-held wand with injector). 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. If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers 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 necessary adjustments should the need arise.

Public water system chemigation

Public water system 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 at least 25 individuals daily at least 60 days out of the year.

1. Chemigation systems connected to public water systems must contain a functional, reduced-pressure zone, backflow preventer (RPZ) or the functional equivalent in the water supply line 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 or overflow rim of the reservoir tank of at least twice the inside diameter of the fill pipe.
2. The pesticide injection pipeline must contain a functional, automatic, quick-closing check valve to prevent the flow of fluid back toward the injection.
3. 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.
4. 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.
5. 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.
6. Do not apply when wind speed favors drift beyond the area intended for treatment.
7. Remove scale, pesticide residues, and other foreign matter from the chemical supply tank and injector system and flush with clean water before use. Failure to provide a clean tank, free of scale or residues may reduce effectiveness of this product.
8. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Application should be continuous in sufficient water to apply the specified rate evenly to the entire treated area.

Drip (trickle) and micro-irrigation chemigation

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 backflow.
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 (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.

Sprinkler chemigation:

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 backflow.
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 (i.e., diaphragm pump) effectively designed and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.
7. Dilute the product in water following the label mixing directions. It may be premixed in a supply tank with water, fertilizer, or other appropriate tank-mixed agricultural chemicals. Agitation is

necessary. Apply to moderately moist soils. Use volumes that thoroughly wet the soil but that do not cause significant runoff or excessive drip from pots. Application should be continuous in sufficient water to apply the recommended rate evenly to the entire treated area.

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

WARRANTY

Certis USA LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

MASTER LABEL
SUBLABEL B: Residential Use
CX-9032

BIOFUNGICIDE

{Alternate Brand Names: See Last Page of Master Label for List of ABNs }

Aqueous Suspension Biofungicide/Bactericide for control of plant diseases in and around homes and home gardens: [indoor] houseplants, tropical plants, vegetables, ornamental and fruit trees, shrubs, lawns, flowers, bedding plants, and [[indoor] [and/or] [outdoor]] potted ornamental plants
[Foliar Spray or Soil Drench]

[ FOR ORGANIC GARDENING



[ FOR ORGANIC GARDENING AND ORGANIC LAWN CARE



Active Ingredient:

Bacillus amyloliquefaciens strain D747*98.85%

Other Ingredients 1.15%

Total 100.00%

*Contains a minimum of 1×10^{10} colony-forming units (cfu) per milliliter of product

KEEP OUT OF REACH OF CHILDREN

See [Inside][Side] [Panel][Panels] for [Additional] [Precautionary Statements], [Direction for Use], [and] [Storage and Disposal]

MANUFACTURED BY:

Certis USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046



EPA Reg. No. 70051-107

EPA Est. No.

Lot Number:

Net Contents:

ENVIRONMENTAL HAZARDS:

To protect the environment, do not allow pesticide to enter or run off into storm drains, drainage ditches, gutters, or surface waters. Applying this product in calm weather when rain is not predicted for the next 24 hours will help to ensure that wind or rain does not blow or wash pesticide off the treatment area. Rinsing application equipment over the treated area will help avoid run off to water bodies or drainage systems.

PRODUCT INFORMATION

This product is a broad-spectrum preventative biofungicide/bactericide for control or suppression of fungal and bacterial plant diseases. The active ingredient is a strain (D747) of the beneficial bacterium *Bacillus amyloliquefaciens*. This product also colonizes plant root hairs, preventing establishment of disease-causing fungi and bacteria.

DIRECTIONS FOR USE

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

MIXING INSTRUCTIONS:

This product must be mixed with water and applied as a spray to fruit, [flowers], and/or foliage, or as a drench to plant roots. See below for specific mix rate information.

APPLICATION RATES AND METHODS:

Spray application: For control of powdery mildews, leaf spots, anthracnose, gray mold, and other diseases affecting leaves, flowers, fruit, and other above-ground plant parts of [indoor] [and/or] [outdoor] potted plants [and/or] home garden [plants] {or} [[vegetables,] [[ornamental] [and/or] [fruit] [and/or] [nut] trees,]] [tropical plants,] [shrubs,] [flowers,] [and] [bedding plants]]: Mix 1 teaspoon of product per gallon of water and apply directly to plants using a hand pump sprayer or other suitable spray equipment. Spray just enough to wet all leaves and fruit with minimal run-off or dripping. Total coverage depends on the size of plants to be sprayed and the type of sprayer used. Repeat as needed to maintain disease control, typically every 7-10 days. If disease is prevalent or environmental conditions such as high humidity favor disease outbreak, increase the mixing rate to 1 tablespoon per gallon and shorten the interval between sprays to every 3-7 days.

Drench application: For control of diseases affecting plant roots, tubers, or other parts of plants in contact with soil in the home and home garden: Mix 1 teaspoon of product per gallon of water and apply to the soil by one of the following methods:

For potted plants (indoors or outdoors):

- Apply in sufficient water to wet the entire root mass using a watering can or tank-fed watering wand. Do not water plants again until 24 hours after application. Alternatively, use a hand-pump or other sprayer to spray the mixture on the soil surface in each pot, then immediately apply sufficient water to move the product into the roots.
- Drench the roots of transplants with approx. 4 fluid ounces of the mixture immediately before transplanting into pots or garden soil. Allow to soak into the root ball before transplanting.

For outdoor-grown plants:

- Use a watering can or sprayer to drench the soil in the planting furrow or transplant hole immediately before planting or transplanting. The amount of water required will depend on the size of the hole or length of furrow.
- Alternatively, apply in the first watering after planting or transplanting, either by mixing directly into the water at the rate indicated above, or by spraying onto the soil surface at the base of each plant and immediately watering in with a watering can, hose, sprinkler, or other watering device.

This product can be applied up to and including the day of harvest.

For application to lawns and other grass areas: Mix 1 teaspoon of product per gallon of water and apply as a fine spray to the surface of the lawn or grass area. Total amount of mix required will depend on the type of sprayer used and area to be covered, but typically 2 to 5 gallons of spray mix may be required per 1,000 square feet of lawn. This product can be “watered in” for control of soilborne root and crown diseases by thorough watering immediately after application either with sprinklers or by spraying just before or during light rain.

STORAGE AND DISPOSAL

PESTICIDE STORAGE:

Keep in original container. Store away from direct sunlight, feed, or foodstuffs. Keep container tightly sealed when not in use.

PESTICIDE DISPOSAL AND CONTAINER HANDLING:

Non-refillable container. Do not reuse or refill container.

{For retail containers less than or equal to 5 gallons}

If empty: 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.

{For bulk containers intended for repackaging into smaller, retail containers}

Triple rinse as follows: Empty the remaining contents into application equipment or a 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 back and forth several times. Turn the container over onto its other end and tip it back and forth several times. Empty the 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

WARRANTY

Certis USA LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

Optional Label Statements/Elements (applicable to Sublabel B ONLY):

{The following items may or may not appear on the final printed labeling, See last page of master label for additional optional statements applicable to all sublabels.}

Optional Language for Attaching Container to a Garden Hose:

OPTION 1

Hose-End Spray Instructions

The sprayer attached to the container is ready-to-use. Simply attach to your garden hose and follow these instructions:

1. Ensure the large, round “on/off” knob is set to OFF.
2. Turn on Water.
3. PUSH IN small knob near front of sprayer. This allows water and product to mix.
4. Hold sprayer and container level and point towards area to be sprayed.
5. Turn large, round “on/off” knob to ON.
6. Begin spraying product evenly over area you wish to treat.
7. Spray until visibly wet.
8. To stop spraying, turn large, round knob to OFF.
9. PULL OUT small knob near front of sprayer. This prevents product from mixing with water.
10. Turn off water at faucet. Relieve water pressure in the hose by turning large, round “on/off” knob ON until water pressure is reduced.
11. Turn the knob to OFF for storage of unused product and/or disposal of empty container.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

OPTION 2

HOW TO USE

Make sure water control knob on hose sprayer is in the “OFF” position. Hold by handle and shake vigorously, turning bottle as you shake. Attach the hose to spray nozzle. Blend safety tab back and break off. Turn control to “WATER” position. Slowly turn on water supply to moderate rate of flow. Point nozzle toward spray area, turn control knob to “ON.” Product will automatically mix with water. Slowly sweep the area to be treated. To stop spraying, turn control valve to the “OFF” position. Turn off water at faucet. To relieve pressure, turn control valve to the “WATER” position pointing sprayer away from self. Remove from hose.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

OPTION 3

TWIST & SHOOT™ READY TO SPRAY INSTRUCTIONS

1. Make sure control knob is in “OFF” position, then connect to garden hose.
2. Turn water on at faucet. When spraying low growing plants and small shrubs, twist the control knob right, to the “FAN” position. When spraying taller trees, shrubs, and other plants, twist the control knob left to the “STREAM” position for extended reach and more uniform coverage. The product mixes automatically with the water as you spray.

3. To stop spraying turn the control knob lever to the "OFF" position. Turn off the water at the faucet and disconnect sprayer from garden hose.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

OPTION 4

Ready-To-Spray Instructions

For Outdoor Use Only

DOUBLE KNOB SPRAYER INSTRUCTIONS

The sprayer attached to the container is ready-to-use. Simply attach to the garden hose and follow these simple instructions:

1. Ensure the large "ON/OFF" knob is set to OFF
2. Turn on water.
3. Rotate the small, star-shaped product control knob align the flat portion of the knob with the vertical portion of the lock tab and PUSH IN the knob to open. This allows product to mix with water
4. Hold sprayer and container level and point towards area to be sprayed.
5. Turn large, round "ON/OFF" knob forward (away from you) to ON.
6. Begin spraying the product evenly over the area you wish to treat.
7. To stop spraying, turn large, round "ON/OFF" knob backward (toward you) to OFF.
8. PULL OUT and rotate the small, star-shaped product control knob. This prevents product from mixing with water.
9. Turn off water at the faucet. Relieve water pressure in the hose by turning large round "ON/OFF" knob to ON until water pressure is reduced.
10. Turn the knob to OFF for storage or unused product and/or disposal of empty container.

SINGLE KNOB SPRAYER INSTRUCTIONS

The sprayer attached to the container is ready-to-use. Simply attach to the garden hose and follow these instructions:

1. Turn on water.
2. Hold sprayer and container level and point towards area to be sprayed.
3. Bend yellow tab back and turn knob backward (toward you) to ON.
4. Begin spraying product evenly over area you wish to treat.
5. To stop spraying, turn knob forward (away from you) to OFF.
6. Turn off water.

Properly store unused product or dispose of empty container.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

OPTION 5

USING THE READY SPRAY NOZZLE

1. *Shake container well before using*

2. Connect a garden hose to the Ready Spray nozzle. Make sure the dial on the nozzle is in the "OFF" position with the safety tab in the valve notch.
3. Turn on water at faucet. Extend hose to the farthest area to be treated and work back toward the faucet so you don't come in contact with the treated area.
4. To BEGIN spraying, point nozzle toward treatment site and a) bend safety tab back (located at right of dial) with your thumb and b.) hold while turning the dial clockwise until it stops. Water will automatically mix with the product.
5. Spray until wet to control insects. Walk at a steady pace while spraying using an even sweeping motion, slightly overlapping treated areas.
6. To STOP spraying, QUICKLY turn the dial counterclockwise until it stops and the safety tab engages into the notch in the valve. Turn water off at faucet. To relieve pressure before removing nozzle from hose, bend the safety tab back and turn dial "ON" until water stops spraying.
7. To STORE unused product, make sure the dial is in the "OFF" position with the safety tab in the valve notch. Place in a cool area away from heat, sunlight, or open flame.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

OPTION 6

READY-TO-USE DIRECTIONS FOR OUTDOORS ONLY HOW TO USE THE READY-TO-USE SPRAY SYSTEM

Connect

1. Shake well before using.
2. Connect Sprayer to hose.
3. Turn on water.

Spray

1. To begin spraying, point nozzle in the direction you want to spray.
2. [Bend small plastic tab back and] Turn knob [clockwise] to ON position.
3. Spray evenly to the area to be treated. Refer to the [sight gauge] clear view strip (graduated scale) on the side of the container to determine the amount of product sprayed.

Finish

1. To stop spraying, [turn knob counter clockwise] to OFF position.
2. Turn off water.
3. Relieve water pressure by [bending plastic tab back and] turning knob to ON position until water slows to a drip. Then turn knob back to OFF position.

Disconnect sprayer from hose.

NOTE: This product is non-staining to most home siding depending on age and cleanliness. However, before using in areas where the spray may contact home siding (vinyl siding in particular), test in an inconspicuous area and recheck in a few hours. Do not use if any staining is observed.

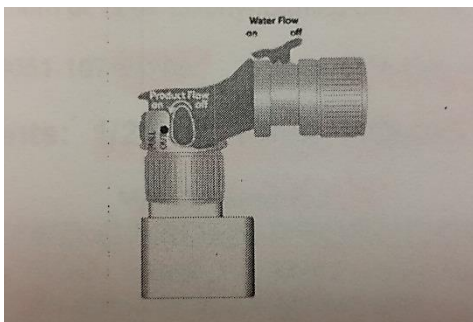
OPTION 7

HOSE-END SPRAYER INSTRUCTIONS:

The sprayer attached to the container is ready-to-use. Simply attach to your garden hose and follow these instructions:

1. Before you start, the blue top water flow valve should be in the "OFF" position, and the red product flow valve should be in the up, "OFF" position.

2. Shake container well and attach it to your garden hose.
3. Turn on the water from faucet.
4. To apply, remove side pin (labeled "PULL OUT") and rotate red product flow valve to "ON;" then while holding the sprayer at waist level and pointing in a direction away from face and body, push blue water flow valve forward to activate water.
5. When you are finished spraying or if you have to stop spraying at any time, press blue water flow valve with thumb to the rear to shut off water and return side red valve to the upright "OFF" position and replace side pin.
6. Turn off water at the faucet.
7. Remove the container from the garden hose; then rinse thoroughly and store according to storage instructions.



Optional Application Instructions:

Product Information

This product is a broad-spectrum preventative biofungicide/bactericide for control or suppression of fungal and bacterial plant diseases on roses, vegetables, fruits, nuts, flowers, houseplants, foliage, trees, and shrubs in residential landscapes, home gardens, and residential greenhouses.

Application Instructions

Shake well before using. Spray leaves, stems, and new shoots to runoff, providing complete coverage of the entire plant. For best results, treat new plants before disease development or at the first visible signs of infection. Repeat at weekly intervals, or as needed. Spray interval may be shortened under conditions favorable to rapid disease development, such as high humidity, excessive rain, or other conditions of extreme moisture. Allow spray to dry at least 4 hours before watering if foliage will also be watered.

This product may be used on the following plants:

Vegetables, fruits, nuts, ornamental trees, shrubs, flowering plants, houseplants, and tropical plants grown in and around home gardens or home greenhouses.

Diseases controlled:

Anthracoise (*Colletotrichum* species)

Bacterial leaf blights, spots, and specks (*Erwinia*, *Pseudomonas*, and *Xanthomonas* species)

Black mold, brown spot, black crown rot (*Alternaria* species)

Black spot of roses (*Diplocarpon* species)

Gray mold, botrytis blight, fruit rot (*Botrytis* species)

Leaf spots (*Alternaria*, *Cercospora*, *Entomosporium*, *Helminthosporium*, *Myrothecium*, and *Septoria* species)

Powdery mildews (*Podosphaera*, *Erysiphe*, *Golovinomyces*, *Sphaerotheca* and *Oidium* species; *Uncinula necator*, *Oidiopsis taurica*, *Leveillula taurica*).

Diseases suppressed:

Downy Mildew (*Bremia lactucae*, *Pernospora* and *Plasmospora* species)

Early blight (*Alternaria solani*)

Late blight (*Phytophthora infestans*)

Fire blight (*Erwinia amylovora*)

Pin rot (*Alternaria/Xanthomonas* complex)

Scab (*Venturia* species)

Optional Product Claims:

- Makes up to 48 gallons for gardens and landscapes
- For lawns, covers 9,000 to 24,000 sq. ft.
- Covers 5,000 sq. ft. or equivalent per 32 fl. oz. container size. (Covers 2,500 sq. ft. or equivalent per 16 fl. oz. container size)]
- Colonizes Roots
- Top to Bottom Disease Control* *(when used for both foliar and soil treatment)
- Triggers Plant Immune Response
- Provides Fungal and Bacterial Plant Protection
- As little as 1 tsp/gal* *(when used for lawns and other grass areas)
- For Indoor/Outdoor Use
- Spray & Drench applications for control of listed diseases affecting foliage, roots, and tubers.
- May be used up to the day of harvest
- Controls listed [blights], [molds], [rots], [spots] and [mildews] on [Vegetables], [Fruits], [Nuts], [Ornamental Trees], [Shrubs], [Flowers], [Houseplants] and [Tropical Plants] [grown in and around the home].
- [Concentrate] makes up to [48] [96] [192] gallons
- Store and transport in an upright position.
- To the extent consistent with applicable law, buyers guarantee limited to label claims.
- Made in [America] {or} [the USA] {may be accompanied by an American flag graphic}
- Monterey® is a registered trademark of Brandt Consolidated, Inc.

Optional Graphics:



MASTER LABEL
SUBLABEL C: Seed Treatment
CX-9032

BIOFUNGICIDE

{Alternate Brand Names: See Last Page of Master Label for List of ABNs }

Aqueous Suspension Biofungicide/Bactericide



FOR ORGANIC PRODUCTION



Active Ingredient:

Bacillus amyloliquefaciens strain D747*98.85%

Other Ingredients 1.15%

Total 100.00%

*Contains a minimum of 1×10^{10} colony-forming units (cfu) per milliliter of product

KEEP OUT OF REACH OF CHILDREN

See [Inside][Side] [Panel][Panels] for [Additional] [Precautionary Statements], [Direction for Use], [and] [Storage and Disposal]

MANUFACTURED BY:

Certis USA LLC
9145 Guilford Road, Suite 175
Columbia, MD 21046



EPA Reg. No. 70051-107

EPA Est. No.

Lot Number:

Net Contents:

PRECAUTIONARY STATEMENTS

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants
- Shoes plus socks

Mixer/loaders and applicators must wear a NIOSH approved particulate filter with any N, R, P filter with NIOSH approval number prefix TC-84A; or a NIOSH- approved powered air purifying respirator with an HE filter with NIOSH approval number prefix TC-21C. Repeated exposure to high concentrations of microbial proteins can cause allergic sensitization.

Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry. When handlers use closed systems, enclosed cabs, or aircraft in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides (40 CFR §170.607 (d), (e), and (f)), the handler PPE requirements may be reduced or modified as specified in the WPS.

USER SAFETY RECOMMENDATIONS

Users should:

- Remove clothing/PPE immediately if pesticides get 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.
- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.

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 washwaters or rinsate. Do not apply when weather conditions favor drift or runoff from treated areas.

PRODUCT INFORMATION

This product is a biological fungicide for seed treatment that provides early season protection of seedlings against "damping off" disease caused by *Rhizoctonia* and other pathogens. Seed should be sound and well-cured before treatment. Do not use this product in combination with other seed treatment products unless compatibility has been verified. Read and follow carefully all label directions of each combination product. When using combinations of products, the most restrictive of label limitations and precautions must be followed.

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.

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 intervals. 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.

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, chemical resistant gloves (made of any waterproof material), shoes plus socks.

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.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. Keep unprotected persons out of treated areas until sprays have dried.

Seed Treatment Equipment:

This product may be used both for commercial and for on-farm application. It can be applied with mechanical, slurry, or mist-type seed treating equipment, as long as the equipment can be calibrated to accurately and uniformly apply the product to seed without undue mechanical damage to the seed. Uniform application to seed is important for all seed treatment products.

Seed should be sound and well-cured before treatment. Refer to the label rates below. This product is typically diluted with water and/or mixed with other products to attain an appropriate slurry application volume per hundredweight (cwt., or 100 pounds) of seed (fl.oz./cwt. slurry rates) to provide effective treating. The appropriate volume of slurry depends on crop, weather, type of treater and other factors and should be adjusted as per normal treating practices for the circumstances. Contact your local supplier or distributor representative for specific recommendations.

This product plus water and/or other treatments should be mixed thoroughly prior to treating seed. Recalibrate treating equipment to compensate for the required slurry rate to ensure all products are applied at the correct rate.

Use higher rates when there is a history of heavy *Rhizoctonia* pressure in the field or for higher levels of protection.

CROP(S)	APPLICATION RATE
Wheat, barley, oats, rye, and triticale	0.015-0.3 fl.oz/cwt
Millet, sorghum	0.15-3 fl.oz/cwt
Rice	0.015-0.3 fl.oz/cwt

CROP(S)	APPLICATION RATE
Field Corn, Sweet Corn, Popcorn	0.04-0.4 fl.oz/seed unit (80,000 kernels) (Equivalent to 0.09-0.90 fl.oz/cwt at a seed weight of 1,800 seeds/pound)
Soybeans	0.07-0.7 fl.oz/seed unit (140,000 seeds) (Equivalent to 0.15-1.5 fl.oz/cwt at a seed weight 2,979 seeds/pound)
Peanuts	0.01-0.3 fl.oz/cwt
Canola	0.5-12 fl.oz/cwt
Cotton	0.01-0.3 fl.oz/cwt
Sunflowers, safflower	0.01-0.3 fl.oz/cwt
Grass Seed: For turf, sod, lawns, golf course (fairways, roughs, greens, tees), and grass seed production including: Bluegrass, Bentgrass, Bermudagrass (common & hybrid), Dichondra, Fescue, Orchardgrass, <i>Poa annua</i> , St. Augustine grass, Ryegrass, Zoysia, mixtures, and other grasses or ornamental turf seed	0.15-3 fl.oz/cwt
Brassica Leafy Vegetables: Broccoli (<i>Brassica oleracea</i> var. <i>botrytis</i>); Broccoli, Chinese (gai lon) (<i>Brassica alboglabra</i>); Broccoli raab (rapini) (<i>Brassica campestris</i>); Brussels sprouts (<i>Brassica oleracea</i> var. <i>gemmifera</i>); Cabbage (<i>Brassica oleracea</i>); Cabbage, Chinese (bok choy) (<i>Brassica chinensis</i>); Cabbage, Chinese (napa) (<i>Brassica pekinensis</i>); Cabbage, Chinese mustard (gai choy) (<i>Brassica campestris</i>); Cauliflower (<i>Brassica oleracea</i> var. <i>botrytis</i>); Cavalo broccolo (<i>Brassica oleracea</i> var. <i>botrytis</i>); Collards (<i>Brassica oleracea</i> var. <i>acephala</i>); Kale (<i>Brassica oleracea</i> var. <i>acephala</i>); Kohlrabi (<i>Brassica oleracea</i> var. <i>gongyloides</i>); Mizuna (<i>Brassica rapa</i> Japonica Group); Mustard greens (<i>Brassica juncea</i>); Mustard spinach (<i>Brassica rapa</i> Perviridis Group); Rape greens (<i>Brassica napus</i>)	0.01-0.4 fl.oz per 100,000 seeds
Bulb Vegetables: Chive, fresh leaves (<i>Allium schoenoprasum</i> L.); Chive, Chinese, fresh leaves (<i>Allium tuberosum</i> Rottler ex Spreng); Daylily, bulb (<i>Hemerocallis fulva</i> (L.) L. var. <i>fulva</i>); Elegans hosta (<i>Hosta sieboldiana</i> (Hook.) Engl); Fritillaria, bulb (<i>Fritillaria</i> L. fritillary); Fritillaria, leaves (<i>Fritillaria</i> L. fritillary); Garlic, bulb (<i>Allium sativum</i> L. var. <i>sativum</i>) (<i>A. sativum</i> Common Garlic Group); Garlic, great headed, bulb (<i>Allium ampeloprasum</i> L. var. <i>ampeloprasum</i>) (<i>A. ampeloprasum</i> Great Headed Garlic Group); Garlic, Serpent, bulb (<i>Allium sativum</i> var. <i>ophioscorodon</i> or <i>A. sativum</i> Ophioscorodon Group); Kurrat (<i>Allium kurrat</i> Schweinf. Ex. K. Krause or <i>A. ampeloprasum</i> Kurrat Group); Lady's leek (<i>Allium cernuum</i> Roth); Leek <i>Allium porrum</i> L. (syn: <i>A. ampeloprasum</i> L. var. <i>porrum</i> (L.) J. Gay) (<i>A. ampeloprasum</i> Leek Group); Leek, wild (<i>Allium tricoccum</i> Aiton); Lily, bulb (<i>Lilium</i> spp. (<i>Lilium leichtlinii</i> var. <i>maximowiczii</i> , <i>Lilium lancifolium</i>)); Onion, Beltsville bunching (<i>Allium x proliferum</i> (Moench) Schrad.) (syn: <i>Allium fistulosum</i> L. x <i>A. cepa</i> L.); Onion, bulb (<i>Allium cepa</i> L. var. <i>cepa</i>) (<i>A. cepa</i> Common Onion Group); Onion, Chinese, bulb (<i>Allium chinense</i> G. Don.) (syn: <i>A. bakeri</i> Regel); Onion, fresh (<i>Allium fistulosum</i> L. var. <i>caespitosum</i> Makino); Onion, green (<i>Allium cepa</i> L. var. <i>cepa</i>) (<i>A. cepa</i> Common Onion Group); Onion, macrostem (<i>Allium macrostemom</i> Bunge); Onion, pearl (<i>Allium porrum</i> var. <i>sectivum</i> or <i>A. ampeloprasum</i> Pearl Onion Group); Onion, potato, bulb (<i>Allium cepa</i> L. var. <i>aggregatum</i> G. Don.) (<i>A. cepa</i> Aggregatum Group); Onion, Welsh, tops (<i>Allium fistulosum</i> L.); Shallot, bulb (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don.); Shallot, fresh leaves (<i>Allium cepa</i> var. <i>aggregatum</i> G. Don.)	0.01-0.4 fl.oz per 100,000 seeds

CROP(S)	APPLICATION RATE
<p>Cucurbit Vegetables: Chayote (fruit) (<i>Sechium edule</i>); Chinese waxgourd (Chinese preserving melon) (<i>Benincasa hispida</i>); Citron melon (<i>Citrullus lanatus</i> var. <i>citroides</i>); Cucumber (<i>Cucumis sativus</i>); Gherkin (<i>Cucumis anguria</i>); Gourd, edible (<i>Lagenaria</i> spp.) (includes hyotan, cucuzza); (<i>Luffa acutangula</i>, <i>L. cylindrica</i>) (includes hechima, Chinese okra); <i>Momordica</i> spp. (includes balsam apple, balsam pear, bitter melon, Chinese cucumber); Muskmelon (hybrids and/or cultivars of <i>Cucumis melo</i>) (includes true cantaloupe, cantaloupe, casaba, crenshaw melon, golden pershaw melon, honeydew melon, honey balls, mango melon, Persian melon, pineapple melon, Santa Claus melon, and snake melon); Pumpkin (<i>Cucurbita</i> spp.); Squash, summer (<i>Cucurbita pepo</i> var. <i>melopepo</i>) (includes crookneck squash, scallop squash, straightneck squash, vegetable marrow, zucchini); Squash, winter (<i>Cucurbita maxima</i>; <i>C. moschata</i>) (includes butternut squash, calabaza, hubbard squash); (<i>C. mixta</i>; <i>C. pepo</i>) (includes acorn squash, spaghetti squash); Watermelon (includes hybrids and/or varieties of <i>Citrullus lanatus</i>)</p>	<p>0.01-0.4 fl.oz per 100,000 seeds</p>
<p>Fruiting Vegetables: Eggplant (<i>Solanum melongena</i>); Groundcherry (<i>Physalis</i> spp.); Pepino (<i>Solanum muricatum</i>); Pepper (<i>Capsicum</i> spp.) (includes bell pepper, chili pepper, cooking pepper, pimento, sweet pepper); Tomatillo (<i>Physalis ixocarpa</i>); Tomato (<i>Solanum lycopersicum</i>, syn. <i>Lycopersicon esculentum</i>)</p>	<p>0.01-0.4 fl.oz per 100,000 seeds</p>
<p>Leafy Vegetables (Excluding Brassicas): Amaranth (leafy amaranth, Chinese spinach, tampala) (<i>Amaranthus</i> spp.); Arugula (Roquette) (<i>Eruca sativa</i>); Cardoon (<i>Cynara cardunculus</i>); Celery (<i>Apium graveolens</i> var. <i>dulce</i>); Celery, Chinese (<i>Apium graveolens</i> var. <i>secalinum</i>); Celtuce (<i>Lactuca sativa</i> var. <i>angustana</i>); Chervil (<i>Anthriscus cerefolium</i>); Chrysanthemum, edible-leaved (<i>Chrysanthemum coronarium</i> var. <i>coronarium</i>); Chrysanthemum, garland (<i>Chrysanthemum coronarium</i> var. <i>spatiosum</i>); Corn salad (<i>Valerianella locusta</i>); Cress, garden (<i>Lepidium sativum</i>); Cress, upland (yellow rocket, winter cress) (<i>Barbarea vulgaris</i>); Dandelion (<i>Taraxacum officinale</i>); Dock (sorrel) (<i>Rumex</i> spp.); Endive (escarole) (<i>Cichorium endivia</i>); Fennel, Florence (finocchio) (<i>Foeniculum vulgare</i> Azoricum Group); Lettuce, head and leaf (<i>Lactuca sativa</i>); Orach (<i>Atriplex hortensis</i>); Parsley (<i>Petroselinum crispum</i>); Purslane, garden (<i>Portulaca oleracea</i>); Purslane, winter (<i>Montia perfoliata</i>); Radicchio (red chicory) (<i>Cichorium intybus</i>); Rhubarb (<i>Rheum rhabarbarum</i>); Spinach (<i>Spinacia oleracea</i>); Spinach, New Zealand (<i>Tetragonia tetragonioides</i>, <i>T. expansa</i>); Spinach, vine (Malabar spinach, Indian spinach) (<i>Basella alba</i>); Swiss chard (<i>Beta vulgaris</i> var. <i>cicla</i>)</p>	<p>0.01-0.4 fl.oz per 100,000 seeds</p>
<p>Legume Vegetables (Dry and Succulent) Except Soybean and Rice: Bean (<i>Lupinus</i> spp.) (includes grain lupin, sweet lupin, white lupin, and white sweet lupin); Bean (<i>Phaseolus</i> spp.) (includes field bean, kidney bean, lima bean, navy bean, pinto bean, runner bean, snap bean, tepary bean, wax bean); Bean (<i>Vigna</i> spp.) (includes adzuki bean, asparagus bean, blackeyed pea, catjang, Chinese longbean, cowpea, Crowder pea, moth bean, mung bean, rice bean, southern pea, urd bean, yardlong bean); Broad bean (fava bean) (<i>Vicia faba</i>); Chickpea (garbanzo bean) (<i>Cicer arietinum</i>); Guar (<i>Cyamopsis tetragonoloba</i>); Jackbean (<i>Canavalia ensiformis</i>); Lablab bean (hyacinth bean) (<i>Lablab purpureus</i>); Lentil (<i>Lens esculenta</i>); Pea (<i>Pisum</i> spp.) (includes dwarf pea, edible-pod pea, English pea, field pea, garden pea, green pea, snow pea, sugar snap pea); Pigeon pea (<i>Cajanus cajan</i>); Soybean (immature seed) (<i>Glycine max</i>); Sword bean (<i>Canavalia gladiata</i>)</p>	<p>0.01-0.3 fl.oz/cwt</p>

TREATED SEED LABELING

Seed that has been treated with this product that is then packaged or bagged for future use must contain the following labeling on the outside of the seed package or bag:

"This bag contains seed treated with *Bacillus amyloliquefaciens* strain D747. Do not use for Food, Feed, or Oil Purposes. Store away from feed and food stuffs. Wear long pants, long-sleeved shirt, and protective gloves when handling treated seed."

USE RESTRICTIONS

Do not use treated seed for food, feed, or oil purposes. Care must be exercised in the handling of treated seed. Augers used for handling treated seed should not be used to move seed for feed, food, or oil processing. Do not re-use bags from treated seed to handle food or feed products.

Treatment of mechanically damaged seed or seed of low vigor or poor quality may result in reduced germination. Treat and conduct germination tests on a small test sample of seed before using this product on commercial quantities. Due to seed quality and seed storage conditions beyond the control of Certis USA LLC, Certis USA LLC makes no claims or guarantees as to germination of carry-over seed.

TO ENSURE UNIFORMITY, MIX PRODUCT WELL BEFORE USE

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or 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: Wastes resulting from the use of this product must be disposed of onsite or at an approved waste disposal facility.

Container Handling:

{Containers ≤5 gallons}

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 a 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

{Containers >5 gallons}

Nonrefillable container. Do not reuse or refill this container. Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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. Turn the container over onto its other end and tip it back and forth several times. Empty the 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, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

{Bulk refillable containers}

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 a 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. When empty, return to point of sale or to the manufacturer.

WARRANTY

Certis USA LLC warrants that the material contained herein conforms to the description on the label and is reasonably fit for the purpose referred to in the directions for use. Timing and method of application, weather, watering practices, nature of soil, the disease problem, condition of the crop, incompatibility with other influencing factors in the use of this product are beyond the control of the seller. To the extent consistent with applicable law, buyer assumes all risks of use, storage, or handling of this material not in strict accordance with directions given herein. NO OTHER EXPRESS OR IMPLIED WARRANTY OF THE FITNESS OR MERCHANTABILITY IS MADE.

Optional Label Statements/Elements (applicable to any/all Sublabels unless otherwise specified):

{The following items may or may not appear on the final printed labeling}


Front panel bursts:

- Aqueous Suspension Biofungicide/Bactericide
- Aqueous Suspension Biofungicide/Bactericide for control of listed plant diseases
- {Sublabel B:} Aqueous Suspension Biofungicide/Bactericide for control of plant diseases in and around homes and home gardens: [indoor] houseplants, tropical plants, vegetables, ornamental and fruit trees, shrubs, lawns, flowers, bedding plants, and [[indoor] [and/or] [outdoor]] potted ornamental plants
- Foliar Spray or Soil Drench

Referral Statements (as necessary for package configuration):

- See [additional] [precautionary statements] [first aid statements] [and] [directions for use] [on [side][back][other] panel] {or} [in attached booklet].
- [See [side][back][inside][other] panel for [additional] [first aid] [precautionary] statements] [and] [directions for use.]
- [Refer to inside of label booklet for additional precautionary information and Directions for Use including First Aid and Storage and Disposal.]
- Peel here [for [additional][more][complete] label instructions]. {may be accompanied by an arrow or other graphic indicating location of peel back corner}

Organic Claims

- 
- {Sublabels A and C}: For organic production
- {Sublabels A and C}: Can be used in organic production
- {Sublabel B}: For organic gardening
- {Sublabel B}: For organic lawn care
- {Sublabel B}: For organic gardening and organic lawn care

Graphics

- {OMRI Seal(s)}





- {Logos}



List of Alternate Brand Names:

- Amylo-X® AS
- Amylo-X® SC
- Amylo-X® LC
- Double Nickel® 55
- Double Tap 55
- Amylo-X® 101.8 SC
- Amylo-X® 98.85 SC
- Amylo-X® SL