



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

NOTICE OF PESTICIDE REGISTRATION

X Registration Reregistration

(under FIFRA, as amended)

EPA Reg Number:

70051-108

Date of Issuance:

Unconditional

Term of Issuance:

Name of Pesticide Product:

CX-9030

Name and Address of Registrant (include ZIP Code):

Certis U.S.A., L.L.C. 9145 Guilford Road, Suite 175 Columbia, MD 21046

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

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

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

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

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

- 1. Revise the EPA Registration number on the label to read, "EPA Reg. No. 70051-108."
- 2. Submit two (2) copies of the revised final printed labeling before you release the product for shipment.

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

Signature of Approving Official:

W. Michael McDut

W. Michael McDavit, Associate Director

Biopesticides and Pollution Prevention Division (7511P)

Date:

DEC 16 2011

EPA Form 8570-6

		CONCURRENCE	S	
SYMBOL >	7511Pm			
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CX-9030

OMRI Seal placeholder

Water Dispersible Granular Biofungicide (Alternate brand names: Double Nickel 55; Amylo-X WG)

For Organic Production

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Activo	nor	ediant
Active	11121	cuiciit.

Bacillus amyloliquefaciens strain D747*	25.0%
Other Ingredients	75.0%
Total	100.0%

Contains a minimum of 5×10¹⁰ colony-forming units (cfu) per gram

ACCEPTED

EPA Reg. No. 70051-EPA Est. No. 70051-CA-001

DEC 1 6 2011

Manufactured by: Certis USA, L.L.C. 9145 Guilford Rd., Suite. 175
Columbia, MD 21046

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

NET WEIGHT: 5 LBS Lot No:

70051-108

KEEP OUT OF REACH OF CHILDREN

CAUTION

FIRST AID - Agricultural Use

IF IN EYES: Hold eyes open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

IF ON SKIN: Take off contaminated clothing. Rinse skin with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.

IF INHALED: Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth if possible. Call a poison control center or doctor for further treatment advice.

Have the product label with you when calling a poison control center or doctor. Hot Line No.:1-800-255-3924 for additional information

PRECAUTIONARY STATEMENTS - Agricultural Use

HAZARDS TO HUMANS & DOMESTIC ANIMALS

CAUTION: Causes moderate eye irritation. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals. Avoid contact with eyes or clothing. Avoid breathing spray mist. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:

· Long-sleeved shirt and long pants

- Waterproof gloves
- Shoes plus socks

Mixer/loaders and applicators must wear a dust/mist filtering respirator meeting NIOSH standards of at least N-95, R-95, or P-95. Repeated exposure to high concentrations of microbial proteins can cause Follow manufacturer's instructions for cleaning and maintaining PPE. In no instructions are available, use detergent and hot water for washables. Keep and wash PPE separately from other laundry.

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

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.

ENVIRONMENTAL HAZARDS- Agricultural Use

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.

GENERAL INFORMATION

CX-9030 is a broad-spectrum preventative biofungicide for control or suppression of fungal and bacterial plant diseases. The active ingredient of CX-9030 is a naturally occurring strain (D747) of the beneficial rhizobacterium *Bacillus amyloliquefaciens*, which colonizes roots, leaves, and other plant surfaces. D747 rapidly colonizes plant root hairs, leaves, and other surfaces, preventing establishment of disease-causing fungi and bacteria.

CX-9030 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, in accordance with the most restrictive of those label limitations and precautions. CX-9030 offers a valuable tool for management of resistance to chemical fungicides through its multiple and unique modes of action.

CX-9030 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: cover-alls, waterproof gloves, 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 CX-9030 in cool 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.

APPLICATION METHODS

Ground: CX-9030 can be applied in most commonly-used ground application equipment, such as 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: CX-9030 can be applied by fixed or rotary winged aircraft in a minimum of 3 gallons of water per acre. Standard precautions should be taken to minimize spray drift.

Chemigation: CX-9030 can be applied through drip (trickle) and sprinkler type irrigation equipment. Refer to the section entitled "Chemigation Instructions" for detailed instructions.

Agricultural crops

CROPS	DISEASES/PATHOGENS (See footnotes for additional information)
Vegetables and melons	T (construction for medicine minoring manager)
Brassica vegetables such as broccoli, cabbage. cauliflower. Brussels sprouts. kohlrabi, and other cole crops.	Pin rot complex (Alternaria/Xanthomonas)* Leaf spots (Alternaria spp., Xanthomonas spp.) Downy mildew (Peronospora spp.) Powdery mildew (Erisyphe polygoni) "Damping off." seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia, Fusarium, Phytophthora, or Verticillium* spp. (see instructions below for "Soil application").
Bulb vegetables such as onions, garlic, shallots, and others.	Botrytis spp. (neck rot. leaf blight) Purple blotch (Alternaria spp.) Downy mildew (Peronospora spp.) Powdery mildew (Erisyphe spp.) Rust (Puccinia pori)* "Damping off." seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia. Fusarium. Phytophthora. or Verticillium* spp. (see instructions below for "Soil application").
Cucurbits such as cucumbers, squash (all types). cantaloupes, muskmelons, watermelons. and other melons.	Powdery mildew (Erisyphe and Sphaerotheca spp.) Downy mildew (Pseudoperonospora spp.) Gummy stem blight (Didymella bryoniae and Phoma cucurbitacearum) See instructions below for "Soil application" against the following diseases: Vine decline (Monosporascus cannonballus) Charcoal rot (Macrophomina phaseoli) "Damping off," seedling blights, and root or crown diseases caused by Pythium. Rhizoctonia. Fusarium. Phytophthora. or Verticillium* spp.
Fruiting vegetables such as tomatoes, peppers, eggplant, tomatillo, okra, and others.	Bacterial spot (Xanthomonas spp.)* Bacterial speck (Pseudomonas syringae pv. tomato)* Gray mold (Botrytis cinerea) Powdery mildew* (Leveillula. Oidiopsis, Erisyphe, and Sphaerotheca spp.) Early blight (Alternaria solani)* Late blight (Phytophthora infestans)* See instructions below for "Soil application" against the following diseases:
	"Damping off," seedling blights, and root or crown diseases caused by Pythium. Rhizoctonia, Fusarium, Phytophthora, or Verticillium* spp. Southern blight (Sclerotium rolfsii)*
Leafy vegetables such as head and leaf lettuce, celery, spinach, radicchio, arugula, watercress, and others (including leafy <i>Brassica</i> vegetables such as mustard and collard greens, kale, bok choi, and related crops).	Downy mildew (Bremia lactucae, Peronospora spp.)* Powdery mildew (Golovinomyces (Erisyphe) cichoracearum)* Bacterial blights Head and leaf drop (Sclerotinia spp.)² Pink rot (Sclerotinia sclerotiorum)² Leaf spots (Cercospora spp.) See instructions below for "Soil application" against the following diseases: "Damping off," seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia, Fusarium, Phytophthora, or Verticillium* spp. Bottom rot (Rhizoctonia solani)
Legume vegetables succulent and dried beans and peas such as green, snap, shell, and Lima beans, garbanzo beans, chickpeas, soybeans, dry beans, peas, split peas, lentils, and other legumes.	White mold (Sclerotinia sclerotiorum) ² Gray mold (Botrytis cinerea) Powdery mildew (Microsphaera diffusa) Rusts*. including Uromyces appendiculatus. Puccinia spp., and Asian soybean rust (Phayospora pachyrhizi) "Damping off," seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia, Fusarium. Phytophthora, or Verticillium* spp. (see instructions below for "Soil application").
Root, tuber, and corm vegetables such as potato, sweet potato, carrot.	Black root/crown rot (Alternaria spp.) Bacterial leaf blight (Xanthomonas campestris)

cassava, beets, ginger, radish, horseradish ²² , ginseng, turnip, and other root, tuber and corm crops.	Downy mildew (Peronospora spp.) Powdery mildew (Erisyphe spp.) Gray mold (Botrytis spp.) White mold (Sclerotinia sclerotiorum) ² Black leg /bacterial soft rot (Erwinia carotovora) Early blight (Alternaria solani)* Late blight (Phytophthora infestans)* See instructions below for "Soil application" against the following diseases: Black scurf (Rhizoctonia solani) Cavity spot (Pythium spp.) "Damping off," seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia. Fusarium. Phytophthora. or Verticillium* spp.
Other vegetables such as sweet corn, popcorn, asparagus, peanut, and watercress	Botrytis spp. Rusts (Puccinia spp.) White mold (Sclerotinia sclerotiorum) ² Leaf spots (Cercospora and Cercosporidium spp.)* "Damping off," seedling blights, and root or crown diseases caused by Pythium, Rhizoctonia, Fusarium, Phytophthora, or Verticillium* spp. (see instructions below for "Soil application").
Tree fruits and nuts	
Citrus such as orange, lemon, lime, grapefruit, tangerine (mandarin), tangelo, pummelo, and other citrus	Alternaria leaf spot (Alternaria alternata) Postbloom fruit drop (Colletotrichum acutatum)* Greasy spot (Mycosphaerella citri)* Citrus canker (Xanthomonas campestris pv. citri) Scab (Elsinoe fawcetti)* Melanose (Diaporthe citri)*
Pome fruits such as apple, pear, crabapple, quince, and others	Powdery mildew (Podosphaera leucotricha) ⁵ Scab (Venturia spp.)* Flyspeck (Zygophiala jamaicensis) ⁶ Sooty blotch disease complex ⁶ Brooks spot (Mycosphaerella pomi) ⁶ Bot rot/white rot (Botryosphaeria dothidea) ⁶ Bitter rot (Colletotrichum spp.) ⁶ Cedar apple rust (Gymnosporangium juniperi-virginianae) ⁶ Fire blight (Erwinia amylovora)* ⁷
Stone fruits such as apricot, cherry, nectarine, peach, plum, prune, pluot, and others	Powdery mildew (Sphaerotheca and Podosphaera spp.)* Bacterial canker (Pseudomonas spp.) Brown rot blossom blight (Monilinia laxa) ⁹ Brown rot (Monilinia fructicola)* ¹⁰ Gray mold (Botrytis cinerea) ¹⁰ Peach leaf curl (Taphrina deformans) Bacterial leaf spot (Xanthomonas arbicola pv. pruni) ¹ Rusty spot (Podosphaera leucotricha) ¹
Tree nuts such as almond, pistachio, pecan, walnut, filbert, hazelnut, chestnut, macadamia, and other tree nuts.	Walnut blight (Xanthomonas campestris) ¹¹ Anthracnose (Colletotrichum acutatum)* Bacterial canker (Pseudomonas syringae) Shot hole (Wilsonomyces carpophilus)* Brown rot (Monilinia spp.)* Pecan scab (Cladosprium caryigenum)*
Pomegranates	Leaf and fruit spots (Cercospora, Gloeosporium and Pestalotia spp.) ¹ Fruit rots (Alternaria, Botrytis, and other spp.) ¹⁰ Powdery mildew (Sphaerotheca pannosa)
Other fruits	
Strawberry	Powdery mildew (Sphaerotheca macularis, Erisyphe spp.)*12 Gray mold (Botrytis cinerea)*11 Anthracnose (Colletotrichum acutatum) Angular leaf spot (Xanthomonas fragariae) For the following diseases, see instructions below for "Soil application" (and also roo

	dip instructions ²²): "Damping off" and root or crown diseases caused by Rhizoctonia, Fusarium, Pythium, Phytophthora, and/or Verticillium* spp. Charcoal rot (Macrophomina phaseolina)
Berries, including blueberry, blackberry, raspberry, loganberry, huckleberry, gooseberry, elderberry, cranberry (non-flooded fields), current, and other berries	Mummy berry (Monilinia vaccinii-corymbosi)* Botrytis blight (Botrytis cinerea) Bacterial canker (Pseudomonas spp.) ¹³ Anthracnose fruit rot (Colletotrichum acutatum) ¹⁰
Grapes including wine grapes, table grapes, and raisins	Powdery mildew (Erisyphe (formerly Uncinula) necator) ¹⁴ Gray mold (Botrytis cinerea) ¹⁵ Sour rot complex ¹⁵ Downy mildew (Plasmopara viticola)* Phomopsis (Phomopsis viticola) ¹⁶ Eutypa (Eutypa lata) ¹⁷
Tropical fruits such as avocado 18, mango 18, papaya 19, pineapple 19, banana. plantain, and others.	Anthracnose (Colletotrichum spp.) Scab (Sphaceloma perseae) Bacterial canker (Xanthomonas campestris) Sigatoka (Mycosphaerella fijiensis) ²⁰
Other Crops	
Herbs and spices such as basil, thyme, coriander, dill, cilantro, parsley, mint, and others.	Powdery mildews (Oidium spp. and others) Downy mildews (Peronospora spp. and others)* Damping off diseases (Rhizoctonia, Pythium, Alternaria, and Fusarium spp.) Leaf spots (Alternaria, Septoria, Colletotrichum, and Cercospora spp.)* Bacterial diseases (Erwinia, Xanthomonas, and Pseudomonas spp.) Rusts (Puccinia spp. and others) "Damping off" and root or crown diseases caused by Rhizoctonia, Fusarium, Pythium Phytophthora, and/or Verticillium* spp. (see instructions below for "Soil application").
Coffee	Coffee berry disease (Colletotrichum coffeanum) Coffee rust (Hemileia vastatrix) Anthracnose (Colletotrichum spp.) Botrytis flower blight Cercospora leaf spot and berry blotch "Damping off" and root or crown diseases caused by Rhizoctonia, Fusarium, Pythium Phytophthora, and/or Verticillium* spp. (see instructions below for "Soil application").
Tobacco	Angular leaf spot (Pseudomonas spp.) Anthracnose (Colletotrichum and Glomerella spp.) Blue mold or downy mildew (Peronospora spp.)* Brown spot (Alternaria) Barn spot/ frogeye leaf spot (Cerrcospora nicolianae) ¹⁰ Collar rot (Sclerotinia slcerotiorum) ² Gray mold (Botrytis cinerea) Powdery mildew (Erysiphe cichoracearum) Target spot (Rhizoctonia solani) See instructions below for "Soil application" against the following diseases: "Damping off," seedling blights, and root or crown diseases caused by Pythium. Rhizoctonia, Fusarium. Olpidium. Phytophthora, or Verticillium* spp. Charcoal rot (Macrophomina phaseolina) Black root rot (Thielaviopsis basicola) Black shank (Phytophthora spp.)* Southern blight/southern stem rot (Sclerotium rolfsii)*
Mint	Rust (Puccinia spp.)

Foliar application: For control of diseases on foliage, flowers, fruit, or other above-ground parts of plants: Mix CX-9030 in water and apply as a spray at a rate of **0.25 to 3 pounds 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 7 to 10 days, or as needed, for as long as conditions favor disease development. Lower rates (0.25 to 1 pound per acre) may be applied under light disease pressure, to smaller (e.g. newly-emerged) plants, or when CX-9030 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 (1 to 3 pounds per acre), apply more frequently (every 3 to 7 days), and mix or rotate CX-9030 with other fungicides for improved performance.

<u>Soil application</u>: For control of soilborne diseases infecting seeds, seedlings, roots, crown, stems, or other plant parts below ground or in contact with soil: Apply CX-9030 at **0.125 to 1 pound** 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).

¹ Tank mix or rotate with copper-based fungicides at label rates for improved control.

²Apply 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.

For greasy spot suppression, apply at first new foliar flush and repeat with each new flush. Tank mix with spray oil or copper based fungicide at labeled rates.

⁴ For suppression of citrus scab, start applications at first new foliage flush and repeat at petal fall and when fruit are ½ inch in diameter.

⁵ 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.

⁶ 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.

⁷Rotate with antibiotics registered for fire blight control for improved performance. 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. CX-9032 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.

^{*}Make first application at popcorn stage and repeat every 7 days.

⁹ Start applying at early bloom stage and repeat every 7 days through petal fall.

in Pre-harvest applications in sufficient water to cover fruit or other harvested plant parts may improve control of postharvest infections.

¹¹ 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.

¹² Start applications at or just before flowering and repeat every 7-10 days as needed through harvest.

¹³ Apply before fall rains and again during dormancy before spring growth.

¹⁴ Start applications when new shoots are ½ to 1½ inches long. Repeat at 3-5 inches, 8-10 inches, and then at 7-10 day intervals until disease conditions no longer exist.

¹⁵ Apply at bloom, before bunch closure, at veraison, and before harvest.

¹⁶ Apply when shoots are ½ to 1 inch long and again when 6-8 inches long.

¹⁷ Mix 2 fluid ounces CX-9032 per gallon of water and apply to pruning wounds.

¹⁸ Apply at budbreak and repeat on 14-21 day interval as needed through harvest.

¹⁹ Apply at flowering and repeat on 14-21 day interval as needed through harvest

²n 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.

²¹ Mix 6 to 10 fluid ounces CX-9032 per 100 gallons of water and apply in minimum of 20 gallons per acre form emergence to training, 50 gallons per acre from training to wire, and 100 gallons per acre from wire touch through harvest.

²² For treatment of horseradish or strawberry roots immediately before transplanting: immerse bare roots (individually or in bunches) for 10 seconds in a suspension of 1 to 2 pints CX-9032 per gallon of water.

- 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 CX-9030 to the root zone.
- Injection directly into the rooting zone using shanks or similar equipment.

Lower rates (0.125 to 0.5 pounds per acre) may be applied under light disease pressure, to smaller plants, or when CX-9030 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 (0.5 to 1 pound per acre), apply more frequently (every 2 weeks), and mix or rotate CX-9030 with other fungicides for improved performance.

<u>Banded (in-furrow) application</u>: Use the table below to determine the correct application rate of CX-9030 per 1,000 row feet, based on row spacing and desired rate per acre. Mix the required amount of CX-9030 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 in the left column. Read across that line to the correct row spacing indicated at the top to find the number of ounces (dry) per 1,000 row feet that will provide the desired application rate per acre. To convert to level teaspoons, multiply the number of ounces by 8.2. For level tablespoons, multiply the number of ounces by 2.75.

Rate/acre						S	pace bet	ween roy	ws (inche	es)					3-11
(pounds)	12	14	16	18	20	22	24	26	28	30	32	34	36	38	40
0.25	0.1	0.1	0.1	0.1	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3
0.5	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	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	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	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	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	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	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	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	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	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	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

Nurseries, greenhouses, shadehouses, and ornamental plants

Spray application: Mix 0.25 to 3 pounds of CX-9030 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 0.125 to 2 pounds of CX-9030 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 soilborne 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 pounds of CX-9030 per gallon of water. Immerse for 5-10 seconds immediately before planting.

Chemigation: Mix 0.125 to 2 pounds of CX-9030 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.	Powdery mildews caused by Erisyphe, Podosphaera, Sphaerotheca, Oidium, and Golovinomyces spp.) Anthracnose (Colletotrichum spp.) Bacterial leaf spots caused by Erwinia, Pseudomonas, and Xanthomonas spp. Damping-off disease (Rhizoctonia, Pythium, Fusarium spp.) Late blight. blackeye, and root rots caused by Phytophthora spp. Gray mold and blight caused by Botrytis cinerea Black root rot (Aspergillus spp.) Black spot of roses (Diplocarpon rosae) Downy mildew (Peronospora spp.) Leaf spots caused by Alternaria, Septoria, Cercospora, Entomosporium, Helminthosporium, and Myrothecium spp.) Rust (Puccinia spp.) Scab (Venturia spp.) Root rot, bottom rot, or stem rot caused by Rhizoctonia solani Sclerotinia blight Fusarium wilts

Turfgrass application: For control of foliar diseases, apply CX-9030 at 0.5 to 1 ounce 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, Poa annua, St. Augustine grass, Ryegrass, Zoysia, mixtures, and other grasses or ornamental turf	Anthracnose (Colletotrichum graminicola) Brown patch (Rhizoctonia solani) Dollar spot (Lanzia and Moellerodiscus spp., formerly Sclerotinia homeocarpa) Powdery mildew (Erisyphe graminis) Rust (Puccinia spp.) Gray leaf spot (Pyricularia grisea) "Damping off" or seedling blights caused by Pythium

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STORAGE AND DISPOSAL

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

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

Pesticide Disposal: Wastes resulting from the use of this product may be disposed of onsite or at an approved waste disposal facility.

Container Handling: Nonrefillable container. Do not reuse or refill this container. Completely empty bag into application equipment. Then offer for recycling if available or dispose of empty bag in a sanitary landfill, or by incineration, or if allowed by state and local authorities, by burning. If burned, stay out of smoke.

CHEMIGATION INSTRUCTIONS

General information:

Apply this product only through drip (trickle) irrigation (including micro-irrigation through spaghetti tubes or individual tubes) or sprinkler irrigation (including impact or microsprinklers, overhead boom, 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.

Crop injury or lack of effectiveness can result from non-uniform distribution of treated water.

If you have questions about calibration, contact State Extension Service specialists, equipment manufacturers or other experts.

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.

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 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.

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.

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

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.

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.

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.

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

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.

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:

- 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, L.L.C. 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.