Active Ingredient: Chromobacterium subtsugae strain PRAA4-1<sup>T</sup> and spent fermentation media* .................................................................30.0%
Other Ingredients: ........................................................................................................70.0%
Total: ..................................................................................................................................100.0%
*Contains not less than 1,000 Cabbage Looper Killing Units (CLKU)/mg. Note: The percent active ingredient does not indicate product performance and potency measurements are not federally standardized.

KEEP OUT OF REACH OF CHILDREN
CAUTION

FIRST AID

IF IN EYES
• Hold eye 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.

HOT LINE NUMBER
Have the product container or label with you when calling a poison control center or doctor, or when going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

Lot No: Printed on bag

PN 61501

GRANDEVO is a registered trademark of Marrone Bio Innovations, Inc. Marrone Bio Innovations name and logo are registered trademarks of Marrone Bio Innovations, Inc.
 TEMPERATURE AND HUMIDITY: 

It is important that the temperature and humidity of the environment are considered when applying GRANDEVO WDG. When conditions are both hot and dry, the drift potential will increase. This is because the aircraft's ability to displace the droplets is reduced when the air is hot and dry. Therefore, it is recommended to adjust the path of the aircraft upwind to minimize drift.

DIRECTIONAL ADJUSTMENTS: 

When applications are made with a crosswind, the swath will be displaced downward. Therefore, on the upwind and downwind edges of the field, the applicator must compensate for this displacement by adjusting the path of the aircraft upwind. Swath adjustment distance should increase with increasing drift potential (higher wind, smaller drops, etc.).

INFORMATION ON DROPLET SIZE: 

The size of the droplets can significantly affect drift. Larger droplets have a lower drift potential, but may reduce coverage. Smaller droplets can increase coverage and control or suppression. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see鲱尾). When selecting nozzle types, consider the droplet size and drift potential. Nozzles designed for low drift will reduce droplet size and increase drift potential. The nozzle type and orientation are important in controlling drift.

PRODUCT INFORMATION: 

GRANDEVO WDG is a biological insecticide/miticide containing cells of Chromobacterium subtsugae strain PMAA-1® and spent fermentation media, for use on ornamental plants and edible crops against the pests listed in the APPLICATION RATES FOR SELECTED CROPS section. GRANDEVO WDG functions primarily as a stomach poison for use in the control or suppression of many foliar-feeding pests, including caterpillars, and certain Coleoptera. GRANDEVO WDG has multiple effects, including reducing fecundity and oviposition, deterring feeding and acting as a stomach poison on Hemiptera and Hymenoptera, such as aphids, psyllids, whiteflies, Lygus, mealybugs, thrips, certain fruit flies, and phytophagous insects infesting labeled crops or use sites. GRANDEVO WDG must be mixed with water and applied as a foliar spray with ground or aerial equipment for conventional pesticide spraying or by chemigation.

NON-AGRICULTURAL USE REQUIREMENTS: 

This product is designed for the intended application. With most nozzle types, narrower spray angles produce larger droplets. Consider using low-drift nozzles. Solid stream nozzles oriented straight back produce larger droplets than other orientations and is the recommended practice. Significant deflection from horizontal will reduce droplet size and increase drift potential. Nozzle Type - Use a nozzle type that is designed for the intended application. Mixing directions

Mixing - Do not mix GRANDEVO WDG to the tank mix before introducing 3/4 of the desired amount of water. Add water to the mix tank. Start the mechanical or hydraulic agitation to provide pressure. Number of Nozzles - Use the minimum number of nozzles that provide uniform coverage. Nozzle Orientation - Orienting nozzles so that the spray is released parallel to the airstream produces the largest droplets and the lowest drift.

ENVIRONMENTAL HAZARDS: 

This product is toxic to aquatic invertebrates. Drift and runoff may be hazardous to nontarget aquatic resources. Minimize spray drift away from target area to reduce effects to nontarget resources. This product is toxic to bees exposed to direct treatment or residues on blooming crops or weeds. Do not apply this product if bees are visiting the treatment area.

For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.

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The size of the droplets can significantly affect drift. Larger droplets have a lower drift potential, but may reduce coverage. Smaller droplets can increase coverage and control or suppression. Applying larger droplets reduces drift potential, but will not prevent drift if applications are made improperly, or under unfavorable environmental conditions (see鲱尾). When selecting nozzle types, consider the droplet size and drift potential. Nozzles designed for low drift will reduce droplet size and increase drift potential. The nozzle type and orientation are important in controlling drift.

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For terrestrial uses: Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater or rinsate.
**TEMPERATURE INVERSIONS:** Do not apply the temperature inversion approach when drip potential is high. Temperature inversions restrict vertical air mixing, which causes small, suspended droplets to remain in the treatment cloud. This cloud can move upwind and is common during temperature inversions. Temperature inversions are characterized by inversion temperatures and are common on nights with limited cloud cover and light to no wind. They begin to form as the sun sets and often continue into the morning. Their presence can be indicated by ground fog; however, if fog is not present, inversions can also be identified by the movement of smoke from a ground source or an aircraft smoke generator. Smoke that moves upward and does not mix laterally could indicate increasing temperatures with altitude and are common on nights with limited cloud cover and light to no wind. These temperatures and altitudes will result in a higher droplet size than that observed at lower elevations at the time the treatment cloud is formed.

**SENSITIVE AREAS:** The pesticide should only be applied when the potential for drift to adjacent sensitive areas (e.g., residential areas, bodies of water, known habitat for threatened or endangered species, non-target species, public trails, etc.) is low. Do not spray to drift from the treatment area site and contact people, structures, or other vegetation. It is not advisable to spray to drift from the sensitive areas.

**CHEMIGATION USE DIRECTIONS**

*Spray preparation*

1. First, prepare a suspension of GRANDEVO WDG in a mix tank. Fill tank with ¾ of the amount of water for the area to be treated. Start mechanical or hydraulic agitation. Add the required amount of GRANDEVO WDG and then the remaining volume of water. Then, the system to deliver a minimum of 0.1 to 0.3 inch of water per acre. Start system and uniformly inject the suspension of GRANDEVO WDG into the irrigation line so as to deliver the desired rate of GRANDEVO WDG with a positive displacement pump into the main line ahead of a right angle turn to ensure adequate mixing. GRANDEVO WDG is to be metered continuously for the duration of the water application.

2. Do not combine GRANDEVO WDG with other pesticides, surfactants, adjuvants, or fertilizers for application through chemigation equipment unless prior knowledge has shown the combination to be physically compatible, effective and non-injurious under your conditions of use.

**General Requirements**

1. Apply this product only through sprinkler, including center pivot, lateral move, end tow, side (wheel) roll, traveler, big gun, solid set, or hand move, or drip (trickle) irrigation systems. Do not apply this product to non-irrigated land. Do not apply by hand. Do not apply to standing water.

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

4. The pesticide injection pipeline must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

5. The pesticide injection pipeline must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

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

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

**Specific Requirements for Chemigation Systems Connected to Public Water Systems**

1. 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.

2. Chemigation system 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 flow 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.

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

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.

**Specific Requirements for Sprinkler Chemigation**

1. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

2. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

3. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

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, automatic, quick-closing check valve, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

**Specific Requirements for Drip (Trickle) Chemigation**

1. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

2. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

3. The system must contain a functional, automatic, vacuum relief valve and low-pressure drain appropriately located on the irrigation pipe to prevent water source contamination from backflow.

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, automatic, quick-closing check valve, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

**Application Instructions for All Types of Chemigation**

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

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

3. Prepare a solution in the chemical tank by filling the tank with the required water and then adding product as required. Utilize agitation to keep solution in suspension.

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, automatic, quick-closing check valve, which will stop the water pump motor when the water pressure decreases to the point where pesticide distribution is adversely affected.

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

**Application Instructions for Drip Chemigation**

1. Check to be sure that the system provides a uniform waterflow.

2. Irrigate crop with sufficient water to wet the root zone. Then, begin flow of the solution containing product solution from the chemical tank for a period to uniformly distribute the material. Discontinue flow of the GRANDEVO WDG mixture and let the system continue to run only as necessary to purge the line with fresh water. Let the GRANDEVO WDG solution remain in the root zone of the crop.

**USE INSTRUCTIONS**

GRANDEVO WDG is a biological insecticide/miticide for use against listed insects and mites. It is a liquid concentrate that must be thoroughly mixed before use. GRANDEVO WDG contains a highly effective product that is also highly effective against a wide range of pests.

**GENERAL SPRAY CONSIDERATIONS**

GRANDEVO WDG performs best under certain conditions. To preserve product spray characteristics and overall efficacy, consider the following spray parameters:

**Tank-Mixing**

GRANDEVO WDG does not have ovicidal activity. When significant insect or mite population or eggs are present, consider tank mixing with a complementary ovicidal/contact insecticide.

**pH**

To maintain product properties, the pH of the mixed spray solution should be between 6-8, with the most desirable level being neutral.

**Water Hardness**

If you know or suspect you have hard water, add ammonium sulfate (AMS) at levels of 1-2% (w/w) or 8.5 to 17 pounds per 100 gallons of water to help maintain efficacy. Add AMS together with GRANDEVO WDG and add it to the water to be treated. Do not dissolve before adding GRANDEVO WDG. Conduct a spray test to determine if your crop/variety is compatible with these AMS levels before adding GRANDEVO WDG to the tank for spraying. For organic production, use an approved water conditioner to address suspected hard water.

**Adjustment of Carrier Volume**

Avoid carrier volumes and/or adjuvants alone or in combinations that result in spray runoff or a drip accumulation. Some adjuvants have been shown to increase or decrease the effectiveness of GRANDEVO WDG. Consult your local agricultural extension agent for the best adjuvant or crop oil is highly recommended. For insecticides and mites, proper timing of application targeting new insects or recently hatched nymphs is highly recommended. For insects and mites, proper timing of application targeting new insects or recently hatched nymphs is highly recommended. For insects and mites, proper timing of application targeting new insects or recently hatched nymphs is highly recommended.

**APPLICATION RATES FOR SELECTED CROPS**

See the pesticide label for application rates for each crop and the specific spray application instructions. See the pesticide label for application rates for each crop and the specific spray application instructions. See the pesticide label for application rates for each crop and the specific spray application instructions.

**FOR USE ON THE FOLLOWING CROPS FOR CONTROL OR SUPPRESSION OF SPECIFIED INSECTS AND MITES:**

**Pre-harvest Interval (PHI):** 0 days

**Affilata (May and September)**

GRANDEVO WDG is not recommended for use on any of the varieties of alfalfa described above. When applied, GRANDEVO WDG may cause product to lose effectiveness or strength. When applied, GRANDEVO WDG may cause product to lose effectiveness or strength. When applied, GRANDEVO WDG may cause product to lose effectiveness or strength.

**Altaflora/hybrids:**

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**AlfalfaWeevil:**

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**2-3 pounds of GRANDEVO WDG per acre**

Plant bugs, spittle bugs, aphids, alalfa weevil, billbugs, chinch bug, mites (such as clover, Bermuda grass stunt, spotted, and winter green), leafhoppers, and Lygus (such as tarnished plant bug...
Artichoke (Globe)
1-3 pounds of GRANDEVO WDG per acre
Armyworms, artichoke plume moth, and loopers

Brassica (Cole) Leafy Vegetables
Broccoli, Bok Choy, Brussels Sprouts, Cabbage, Chinese Broccoli, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavelo Broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, and Rape Greens
1-3 pounds of GRANDEVO WDG per acre
Diamondbac moth, cabbage loopers, imported cabbageworm, cabbage webworm, cross-striped cabbageworm, beet armyworm, armyworms, light brown apple moth, and cutworms

Cereal Grains

Citrus Fruit
Grapefruit, Lemons, Limes, Oranges, and Tangerines
1-3 pounds of GRANDEVO WDG per acre
Fruit tree leafroller, orangered, citrus curculio, and citrus leaffminer
2-3 pounds of GRANDEVO WDG per acre
Aphids, two-spotted spider mite, Texas citrus mite, citrus red mite, citrus rust mite, six-spotted spider mite, Asian citrus psyllid, citrus whitefly, cloudy-winged whitefly, citrus blackfly, citrus thrips, mealybugs, and glassy-winged sharpshooter
California red scale and Florida red scale – Make a minimum of two applications of GRANDEVO WDG per generation, targeting the crawler stage.
Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.

Cotton
1-3 pounds of GRANDEVO WDG per acre
European corn borer, tomato borer, tobacco budworm, loops (soybean and cabbage), saltmarsh caterpillar, fall armyworm, and yellow-striped armyworm
2-3 pounds of GRANDEVO WDG per acre
Cotton aphid, leafhoppers, thrips, cotton flea hopper, silverleaf whitefly, and mites
Suppression – Stink bugs and Lygus. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Potato
1-3 pounds of GRANDEVO WDG per acre
Armyworms, striped cucumber beetle, potato leafhopper, mealybugs, potatoes, sparganothis fruitworm, aphids, thrips, mites, and potato leafminers
Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.
Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.
Do not apply to flooded fields.

Broccoli, Bok Choy, Brussels Sprouts, Cabbage, Chinese Broccoli, Chinese Cabbage (Bok Choy), Chinese Cabbage (Napa), Chinese Mustard Cabbage (Gai Choy), Cauliflower, Cavelo Broccoli, Collards, Kale, Kohlrabi, Mizuna, Mustard Greens, Mustard Spinach, and Rape Greens
1-3 pounds of GRANDEVO WDG per acre
Diamondbac moth, cabbage loopers, imported cabbageworm, cabbage webworm, cross-striped cabbageworm, beet armyworm, armyworms, light brown apple moth, and cutworms

Cotton
1-3 pounds of GRANDEVO WDG per acre
European corn borer, tomato borer, tobacco budworm, loops (soybean and cabbage), saltmarsh caterpillar, fall armyworm, and yellow-striped armyworm
2-3 pounds of GRANDEVO WDG per acre
Cotton aphid, leafhoppers, thrips, cotton flea hopper, silverleaf whitefly, and mites
Suppression – Stink bugs and Lygus. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Cranberry
1-3 pounds of GRANDEVO WDG per acre
Armyworms, brown spanworm, cranberry fruitworm, cutworms, leafrollers, fireworms, loopers, sparganothis fruitworm, aphids, thrips, mites, and cranberry blossom weevil

Cucurbit Vegetables
Cucumber, Edible Gourds, Muskmeon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash
1-3 pounds of GRANDEVO WDG per acre
Armyworms, cabbage looper, melonworm, pickleworm, rindworm complex, corn earworm, and cutworms
2-3 pounds of GRANDEVO WDG per acre
Whiteflies, aphids, thrips, and mites
Spot wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.
Suppression – Cucumber beetle, stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Corn (Field Corn, Sweet Corn, Popcorn and Corn Grown for Seed)
1-3 pounds of GRANDEVO WDG per acre
Armyworms, corn earworm (headworm), southwestern corn borer, and webworms
2-3 pounds of GRANDEVO WDG per acre
Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Cotton
1-3 pounds of GRANDEVO WDG per acre
European corn borer, stink bugs, thrips, mites, chinch bugs, and corn rootworm beetles

Cranberry
1-3 pounds of GRANDEVO WDG per acre
Armyworms, brown spanworm, cranberry fruitworm, cutworms, leafrollers, fireworms, loopers, sparganothis fruitworm, aphids, thrips, mites, and cranberry blossom weevil
Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.
Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.
Do not apply to flooded fields.

Cucumber, Edible Gourds, Muskmeon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash
1-3 pounds of GRANDEVO WDG per acre
Armyworms, cabbage looper, melonworm, pickleworm, rindworm complex, corn earworm, and cutworms
2-3 pounds of GRANDEVO WDG per acre
Whiteflies, aphids, thrips, and mites
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Do not apply to flooded fields.

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Cucumber, Edible Gourds, Muskmeon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash
1-3 pounds of GRANDEVO WDG per acre
Armyworms, cabbageworm, melonworm, pickleworm, rindworm complex, corn earworm, and cutworms
2-3 pounds of GRANDEVO WDG per acre
Whiteflies, aphids, thrips, and mites
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Cucumber, Edible Gourds, Muskmeon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash
1-3 pounds of GRANDEVO WDG per acre
Armyworms, cabbageworm, melonworm, pickleworm, rindworm complex, corn earworm, and cutworms
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Suppression – Cucumber beetle, stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Do not apply to flooded fields.

Cucurbit Vegetables
Cucumber, Edible Gourds, Muskmeon, Cantaloupe, Pumpkin, Watermelon, and Winter and Summer Squash
1-3 pounds of GRANDEVO WDG per acre
Armyworms, cabbageworm, melonworm, pickleworm, rindworm complex, corn earworm, and cutworms
2-3 pounds of GRANDEVO WDG per acre
Whiteflies, aphids, thrips, and mites
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Suppression – Cucumber beetle, stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Do not apply to flooded fields.
1-3 pounds of GRANDEVO WDG per acre

**Navel orangeworm**

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.

**Suppression** – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

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**Flowers, Bedding Plants, and Ornamentals – Ground application only to non-blooming plants**

1-3 pounds of GRANDEVO WDG per acre or 1-3 pounds of GRANDEVO WDG per 100 gallons of water

Looppers, tobacco budworm, omnivorous looper, omnivorous leafroller, diamondback moth, armyworms, elio moth, lo moth, clesander moth, and azalea caterpillar

2-3 pounds of GRANDEVO WDG per acre or 2-3 pounds of GRANDEVO WDG per 100 gallons of water

Whiteflies, aphids, thrips, azalea lace bug, Lygus, and mites

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**Fruiting Vegetables**

Tomato, Tomato, Pepper, Groundcherry, Pepino, Okra, and Eggplant

1-3 pounds of GRANDEVO WDG per acre

Loopers, hornworm, tomato fruitworm, variegated cutworm, saltmarsh caterpillar, armypawms (including beet and yellow-striped), tomato pinworm, and European corn borer

2-3 pounds of GRANDEVO WDG per acre

Colorado potato beetle larvae – Apply to newly hatched to 2nd instar larvae. If adult beetles are also present, tank mix with a knockdown insecticide.

Aphids, mites, Lygus, whiteflies, plant bugs, psyllids, and thrips

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.

**Suppression** – Pepper weevil, stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression. Use pheromone traps to time applications of GRANDEVO WDG for management of pepper weevil.

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**Grape, Amur River Grape, Gooseberry, Kiwifruit, Maypop and Schisandra Berry**

1-3 pounds of GRANDEVO WDG per acre

Grape leafminer, leafroller, omnivorous leafroller, orange tortoise, obliquebanded leafroller, grape berry moth, and light brown apple moth

2-3 pounds of GRANDEVO WDG per acre

Pacific spider mite, Willamette spider mite, two-spotted spider mite, leafhoppers, mites, mealybugs, glassy-winged sharpshooter, whiteflies, and thrips

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.

**Suppression** – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

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**Herbs and Spices**

Angelica, Balsam, Basil, Borago, Burnet, Chamomile, Catnip, Chervil, Chive, Clay, Coriander, Costmary, Cleantro, Curry, Dillweed, Horehound, Hyssop, Lavender, Lemongrass, Lovage, Marjoram, Mint, Nasturtium, Parsley (Dried), Peppermint, Rosemary, Sage, Savory (Summer and Winter), Spearmint, Sweet Bay, Tansy, Tarragon, Thyme, Wintergreen, Woodruff, and Wormwood

1-3 pounds of GRANDEVO WDG per acre

Looppers, saltmarsh caterpillar, and armypawms

2-3 pounds of GRANDEVO WDG per acre

Aphids, thrips, whiteflies, and mites

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**Leafy Vegetables**

Arugula, Celery, Corn Salad, Cress, Dandelion, Dock, Edible-Leaved Chrysanthemum, Endive, Fennel, Head Lettuce, Leaf Lettuce, Parsley, Purslane, Radicchio, Rhubarb, Spinach, and Swiss Chard

1-3 pounds of GRANDEVO WDG per acre

Cabbage looper, diamondback moth, armypawms, loopers, cutworm species, green cloverworm, and tobacco budworm

2-3 pounds of GRANDEVO WDG per acre

Aphids, whiteflies, thrips, psyllids, and mites

**Suppression** – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression of stink bugs.

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**Leaves of Root and Tuber Vegetables**

Beets and Turnips

1-3 pounds of GRANDEVO WDG per acre

Cabbage looper, diamondback moth, and armypawms

2-3 pounds of GRANDEVO WDG per acre

Aphids, whiteflies, and psyllids

**Suppression** – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression of stink bugs.

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**Legume Crops (Succulent or Dried) and Legume Grain Crops**


1-3 pounds of GRANDEVO WDG per acre

Aphids, mites, leafhoppers, whiteflies, and thrips

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control.

**Suppression** – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

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**Oilseed Crops**

Canola, Safflower, and Sunflower (including Sunflower Grown for Seed)

1-3 pounds of GRANDEVO WDG per acre

Aphids, diamondback moth, loopers, saltmarsh caterpillar, Heliothis, and headworms

2-3 pounds of GRANDEVO WDG per acre

Aphids, thrips, whiteflies, and mites

**Suppression** – Kudzu bug. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

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**Peanut**

1-3 pounds of GRANDEVO WDG per acre

Aphids, cabbage looper, corn earworm, soybean looper, green cloverworm, European corn borer, podworms, red-necked peanut worm, saltmarsh caterpillar, and velvetbean caterpillar

2-3 pounds of GRANDEVO WDG per acre

Aphids, thrips, whiteflies, and mites

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**Pineapple**

1-3 pounds of GRANDEVO WDG per acre

Gummosis-Batrachochromatormes (Hedges) and Thecla-Thecla Basillides (Sieyer)(fruit borer)
Pome Fruit*

Apples, Crabapple, Loquat, Mayhaw, Pears, and Quince

1-3 pounds of GRANDEVO WDG per acre

Leafrollers (including fruittree, obliquebanded, red-banded, and variegated), codling moth, oriental fruit moth, tufted apple budmoth, and light brown apple moth.

Application timing: Optimal timing for leafrollers, codling moth, and oriental fruit moth can vary between species and geographic locations. Monitor moth flights with pheromone traps and scout regularly to determine larval populations. GRANDEVO WDG can be used to supplement mating disruption programs.

2-3 pounds of GRANDEVO WDG per acre

Aphids, mealybugs, pear psylla, thrips, whiteflies, and mites

Rosy apple aphid – Make an initial application at the pink stage of bloom. Additional applications may be necessary to maintain control.

San Jose scale – Make a minimum of two applications of GRANDEVO WDG per generation targeting the crawler stage. GRANDEVO WDG can be used to supplement mating disruption programs. Spotted wing drosophila, apple maggot, and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control. Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

*Some sensitive pome fruit varieties have exhibited fruit spotting as a result of application. Spray a test strip to confirm your variety is not susceptible to spotting before spraying the entire orchard. Avoid carrier volumes and/or adjuvants alone or in combinations that result in spray runoff or a drip accumulation on fruit bottoms.

Pomegranate

1-3 pounds of GRANDEVO WDG per acre

Aphids, mealybugs, pear psylla, thrips, whiteflies, and mites

3 pounds of GRANDEVO WDG per acre

San Jose scale, European red mite, McDaniel spider mite, Pacific spider mite, and two-spotted red mite

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control. Suppression – Stink bugs, Japanese beetles, leaf-footed plant bugs, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Root and Tuber Vegetables

Black Salsify, Carrot, Cassava, Celeriac, Chayote Root, Chicory, Chinese Artichoke, Edible Burdock, Garden Beet, Ginger, Ginseng, Horseradish, Jerusalem Artichoke, Oriental Radish, Parsnip, Potatoes, Radish, Rutabaga, Salsify, Skirret, Spanish Salsify, Sugar Beet, Sweet Potatoes, Tumeric, Turnip, Turnip-Rooted Chervil, Turnip-Rooted Parsley, and Yams

1-3 pounds of GRANDEVO WDG per acre

Aphids, thrips, and whiteflies

Avocado leafroller, citrus peelminer, cutworms, fruittree leafroller, omnivorous leafroller, orange tortrix, and western tussock moth

1-3 pounds of GRANDEVO WDG per acre

Aphids, potato aphid, potato leafhopper, psyllids (including potato psyllid), and whiteflies

Pome Fruit* Suppression – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression of stink bugs.

Stone Fruits

Apricots, Cherry, Nectarine, Peach, Plum, and Prune

1-3 pounds of GRANDEVO WDG per acre

Aphids, leafrollers, and cutworms

1-3 pounds of GRANDEVO WDG per acre

Green fruitworm, leafrollers (including obliquebanded, fruittree, pandemic, red-banded, and variegated), oriental fruit moth, redhumped leafroller, tufted apple budmoth, twig borer, variegated leafroller, and walnut caterpillar

Application timing: Optimal timing for peach two-borer and leafrollers can vary between species and geographic locations. Monitor moth flights with pheromone traps and scout regularly to determine larval populations. GRANDEVO WDG can be used to supplement mating disruption programs.

2-3 pounds of GRANDEVO WDG per acre

Aphids, mealybugs, thrips, whiteflies, and mites

San Jose scale and white peach scale - Make a minimum of two applications of GRANDEVO WDG per generation targeting the crawler stage.

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control. Suppression – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Strawberry

1-3 pounds of GRANDEVO WDG per acre

Aphids, leafrollers, and cutworms

Parsnip, Potatoes, Radish, Rutabaga, Salsify, Skirret, Spanish Salsify, Sugar Beet, Sweet Potatoes, Tumeric, Turnip, Turnip-Rooted Chervil, Turnip-Rooted Parsley, and Yams

1-3 pounds of GRANDEVO WDG per acre

Aphids, potato aphid, potato leafhopper, psyllids (including potato psyllid), and whiteflies

Apples, Crabapple, Loquat, Mayhaw, Pears, and Quince

1-3 pounds of GRANDEVO WDG per acre

Aphids, mealybugs, pear psylla, thrips, whiteflies, and mites

San Jose scale and white peach scale - Make a minimum of two applications of GRANDEVO WDG per generation targeting the crawler stage.

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control. Suppression – Stink bugs. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.

For further applications, exceeding water volumes of 100 gallons per acre (GPA) may result in reduced product efficacy.

Tobacco

1-3 pounds of GRANDEVO WDG per acre

Aphids, leafrollers, and cutworms

Tree Farms and Plantations

Conifers, Including Christmas Trees and Deciduous Trees

1-3 pounds of GRANDEVO WDG per acre or 1-3 pounds of GRANDEVO WDG per 100 gallons of water

Bagworm, fall webworm, gypsy moth, hemlock looper, jack pine budworm, pine tip moth, redhumped caterpillar, spruce budworm, tent caterpillar, and tussock moth

2-3 pounds of GRANDEVO WDG per acre

Aphids, leafrollers, and cutworms

San Jose scale and walnut scale - Make a minimum of two applications of GRANDEVO WDG per generation targeting the crawler stage.

3 pounds of GRANDEVO WDG per acre

Pecan trees

Tropical and Subtropical Fruit

Acera, Atemoya, Avocado, Birlba, Black Sapote, Canistel, Cherimoya, Custard Apple, Feijoa, Guava, Ilama, Jaboticaba, Kiwi, Longan, Lychee, Mamey Sapote, Mango, Papaya, Passionfruit, Pulasan, Rambutan, Sapodilla, Soursop, Spanish Lime, Star Apple, Starfruit, Sugar Apple, Ti Palm Leaves, Wax Jambu (Wax Apple), and White Sapote

1-3 pounds of GRANDEVO WDG per acre

Aphids, leafrollers, and cutworms

Avocado leafroller, citrus peelminer, cutworms, fruittree leafroller, omnivorous leafroller, orange tortrix, and western tussock moth

2-3 pounds of GRANDEVO WDG per acre

Aphids, thrips, and whiteflies

Spotted wing drosophila and fruit flies – Begin applications as soon as adult flies are active and continue until adult activity is no longer present. Use GRANDEVO WDG as part of an integrated management program for control of spotted wing drosophila that includes tank mixes and rotation with other products labeled for control of spotted wing drosophila. During periods of adult fly activity, make applications on no more than a 7-day interval and more frequently if necessary to maintain control. Suppression – Stink bugs, Japanese beetles, and flea beetle. Tank mix GRANDEVO WDG with a contact insecticide for control or improved suppression.
STORAGE AND DISPOSAL

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

Pesticide Storage: Store in original container in a cool, dry place.
Pesticide Disposal: To avoid wastes, use all material in this container by application according to label directions. If wastes cannot be avoided, offer remaining product to a waste disposal facility or pesticide disposal program (often such programs are run by state or local governments or by industry).
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. Do not burn, unless allowed by state and local ordinances. (For instances where state and local ordinances do allow burning): If burned, stay out of smoke.

WARRANTY

To the extent consistent with applicable law, the seller makes no warranty, expressed or implied, of merchantability, fitness or otherwise concerning use of this product. To the extent consistent with applicable law, the user assumes all risks of use, storage or handling that are not in accordance with the accompanying directions.

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PATTERN VARNISH: ☒ YES ☐ NO

Form: CS 006B - 11/8/2011

WE CANNOT PROCESS THIS ORDER WITHOUT AN AUTHORIZED SIGNATURE

Signed ____________________________ Date _______________