PULL HERE TO OPEN ▶

GROUP 9 12 FUNGICIDES



syngenta.

Fungicide

A fungicide for control of Botrytis and other diseases in ornamentals.

Active Ingredients:

Cyprodinil*	
Other Ingredients:	37.5%
Total:	100.0%

*CAS No. 121552-61-2 **CAS No. 131341-86-1

Palladium is a water-dispersible granule.

KEEP OUT OF REACH OF CHILDREN. CAUTION

See additional precautionary statements and directions for use inside booklet.

EPA Reg. No. 100-1328 EPA Est. 67545-AZ-1 SCP 1328A-L1A 0110 4033340

2 pounds Net Weight





FIRST AID		
If on skin or clothing	Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice.	
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 min-	

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOTLINE NUMBER

utes, then continue rinsing eye.

Call a poison control center or doctor for treatment advice.

For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call 1-800-888-8372

PRECAUTIONARY STATEMENTS

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. 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
- Chemical-resistant gloves made of any waterproof material
- Shoes plus socks

User Safety Requirements

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

continued...

PRECAUTIONARY STATEMENTS (continued)

Engineering Control Statements

When handlers use closed systems or enclosed cabs in a manner that meets the requirements listed in the Worker Protection Standard (WPS) for agricultural pesticides [40 CFR 170.240(d)(4-6)], the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing.

Environmental Hazards

This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. Do not apply directly to water, or to areas where surface areas below the mean high water mark. Do not contaminate water

water is present, or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment wash water or rinsate.

Ground Water Advisory

This chemical has properties and characteristics associated with chemicals detected in ground water. The use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in ground water contamination.

Surface Water Advisory

This chemical may contaminate water through drift of spray in wind. This chemical has a high potential for runoff for several months or more after application. Poorly draining soils and soils with shallow water tables are more prone to produce runoff that contains this chemical. A level, well maintained vegetative buffer strip between areas to which this chemical is applied and surface water features such as ponds, streams, and springs will reduce the potential for contamination of water from rainfall runoff. Runoff of this chemical will be reduced by avoiding applications when conditions favor runoff (such as when soils are saturated and/or significant rainfall is forecast in the next 48 hours). Sound erosion control practices will reduce this chemical's contribution to surface water contamination.

Physical or Chemical Hazards

Do not use or store near heat or open flame.

CONDITIONS OF SALE AND LIMITATION OF WARRANTY AND LIABILITY

NOTICE: Read the entire Directions for Use and Conditions of Sale and Limitation of Warranty and Liability before buying or using this product. If the terms are not acceptable, return the product at once, unopened, and the purchase price will be refunded.

The Directions for Use of this product must be followed carefully. It is impossible to eliminate all risks inherently associated with the use of this product. Crop injury, ineffectiveness or other unintended consequences may result because of such factors as manner of use or application, weather or crop conditions, presence of other materials or other influencing factors in the use of the product, which are beyond the control of SYNGENTA CROP PROTECTION, LLC or Seller. To the extent permitted by applicable law, Buyer and User agree to hold SYNGENTA and Seller harmless for any claims relating to such factors.

SYNGENTA warrants that this product conforms to the chemical description on the label and is reasonably fit for the purposes stated in the Directions for Use, subject to the inherent risks referred to above, when used in accordance with directions under normal use conditions. To the extent permitted by applicable law: (1) this warranty does not extend to the use of the product contrary to label instructions or under conditions not reasonably foreseeable to or beyond the control of Seller or SYNGENTA, and, (2) Buyer and User assume the risk of any such use. To the extent permitted by applicable law, SYNGENTA MAKES NO WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE NOR ANY OTHER EXPRESS OR IMPLIED WARRANTY EXCEPT AS WARRANTED BY THIS LABEL.

To the extent permitted by applicable law, in no event shall SYNGENTA be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT PERMITTED BY APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF SYNGENTA AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF SYNGENTA OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SYNGENTA and Seller offer this product, and Buyer and User accept it, subject to the foregoing Conditions of Sale and Limitation of Warranty and Liability, which may not be modified except by written agreement signed by a duly authorized representative of SYNGENTA.

DIRECTIONS FOR USE

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

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your State or Tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USES

For use to control diseases on ornamentals in production operations such as nurseries, greenhouses, and forest nurseries.

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),

notification to workers, and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

Do not enter or allow worker entry into treated areas during the restricted-entry interval (REI) of 12 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

NON-AGRICULTURAL USES

For use to control diseases on ornamentals on golf courses and landscaped areas around institutional, public, commercial and industrial buildings, parks, recreational areas and athletic fields.

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.

Do not enter or allow others to enter the treated area until sprays have dried.

FAILURE TO FOLLOW DIRECTIONS AND PRECAUTIONS ON THIS LABEL MAY RESULT IN CROP INJURY, POOR DISEASE CONTROL, AND/OR ILLEGAL RESIDUES.

RESISTANCE MANAGEMENT

GROUP 9 12 FUNGICIDES

Palladium contains two fungicides with different modes of action. Cyprodinil is an anilinopyrimidine in Group 9.
Fludioxonil is a phenylpyrrole in Group 12. A disease management program that includes alternation or tank mixes between Palladium and other labeled fungicides that have a different mode of action is essential to prevent pathogen populations from developing resistance to Palladium. Do not alternate or tank mix this product with fungicides to which resistance has already developed. Palladium may be applied in an alternation program.

APPLICATION INSTRUCTIONS

Thorough coverage is necessary to provide good disease control. Applications using sufficient water volume to provide thorough and uniform coverage generally provide the most effective disease control. Recommended minimum spray volume is 50 gal/A. Do not apply Palladium with fewer than three gallons spray volume per acre.

Use of non-ionic surfactants may be desirable to improve spray coverage on waxy or difficult to wet leaves. This may also help minimize visible spray residue. Test Palladium with the nonionic surfactant at the desired use rates on a small number of plants for safety before making large scale applications.

To avoid spray drift, do not apply when conditions favor drift beyond the target area. Avoid spray overlap, as plant injury may occur.

Equip sprayers with nozzles that provide accurate and uniform application. Calibrate sprayer before use.

Use a pump with capacity to maintain the correct rated pressure for the nozzles selected. Maintain sufficient agitation to keep the mixture in suspension. Use a jet agitator, liquid sparge tube, or mechanical paddle for agitation. Do not air sparge.

Use screens to prevent nozzles from clogging. Use 50-mesh or coarser screens placed after the tank and before the nozzles. Check nozzle manufacturer's recommendations.

For more information on spray equipment and calibration, consult sprayer manufacturers and state recommendations. For specific local directions and spray schedules, consult the current state agricultural experiment station recommendations.

Chemigation: Do not apply this product through any type of irrigation system.

OBSERVE THE FOLLOWING PRECAUTIONS WHEN SPRAYING IN THE VICINITY OF AQUATIC AREAS SUCH AS LAKES, RESERVOIRS, RIVERS, PERMANENT STREAMS, MARSHES OR NATURAL PONDS, ESTUARIES, AND COMMERCIAL FISH FARM PONDS.

- For outdoor applications, do not apply within 75 ft of bodies of water such as lakes, reservoirs, rivers, permanent streams, natural ponds, marshes, or estuaries.
- For all plantings within 150 ft of bodies of water as described above, spray crops from outside the planting away from the bodies of water.
- Do not cultivate within 10 ft of aquatic areas as to allow a vegetative filter strip.
- Do not apply when weather conditions favor drift to aquatic areas. Do not apply when gusts or sustained winds exceed 10 mph.
- Do not apply during a temperature inversion. Mist or fog may indicate the presence of an inversion in humid areas.
- Shut off the sprayer when at row ends.
- Spray last three rows windward of aquatic areas using nozzles on one side only, with spray directed away from aquatic areas.

MIXING PROCEDURES

Prepare no more spray mixture than is needed for the immediate operation. Thoroughly clean spray equipment before using this product. Vigorous agitation is necessary for proper dispersal of the product. Maintain maximum agitation throughout the spraying operation. Do not let the spray mixture stand overnight in the spray tank. Flush the spray equipment thoroughly following each use and apply the rinsate to a previously treated area.

Palladium Alone: Add 1/2 of the required amount of water to the mix tank. With the agitator running, add the Palladium to the tank. Continue agitation while adding the remainder of the water. Begin application of the solution after the Palladium has completely dispersed into the mix water. Maintain agitation until all of the mixture has been applied.

Palladium + Tank Mixtures: Palladium is compatible in tank mixtures with many commonly used fungicides, liquid fertilizers, growth regulators, insecticides and biological control products. Consult compatibility charts or your local or state agricultural authorities for compatibility information or conduct a jar test to ensure physical compatibility. Tank mix compatibility does not ensure crop/plant safety. Apply any mixture on a small number of plants and determine safety prior to applying on a larger scale.

To prepare spray solution, add 1/2 of the required amount of water to the mix tank. Start the agitator running before adding any tank-mix partners. In general, add tank-mix partners in this order: products packaged in water-soluble packaging, wettable powders, wettable granules (dry flowables) such as Palladium, liquid flowables, liquids, and emulsifiable concentrates. Always allow each tank-mix partner to become fully dispersed before adding the next product. Provide sufficient agitation while adding the remainder of the water. Maintain agitation until all of the mixture has been applied.

When using Palladium in tank mixtures, add all products in water-soluble packaging to the tank before any other tank-mix partner, including Palladium. Allow the water-soluble packaging to completely dissolve and the product(s) to completely disperse before adding any other tank-mix partner to the tank.

If using Palladium in a tank mixture, observe all directions for use, crops/sites, use rates, dilution ratios, precautions, and limitations which appear on the tank-mix product label. Do not exceed label dosage rates, and follow the most restrictive label precautions and limitations. This product must not be mixed with any product which prohibits such mixing. Tank mixtures or other applications of products referenced on this label are permitted only in those states in which the referenced products are registered.

ORNAMENTAL USE DIRECTIONS

Ornamental Use Restrictions

- Do not use Palladium on residential ornamentals.
- New York (Nassau and Suffolk Counties): Use is limited to ornamentals grown in greenhouses, lath
 and shade houses.

- Resistance Management: After 2 applications of Palladium, alternate with another fungicide with a different mode of action for 2 applications.
- Restrictions for Outdoor Uses: Do not apply more than 56 oz/A of Palladium per plot of land per year. Do not apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per plot of land per year.
- Restrictions for Greenhouses, Lath and Shade Houses: Do not apply more than 56 oz/A of Palladium per crop cycle. Do not apply more than 1.3 lb ai/A of cyprodinil-containing products and 0.9 lb ai/A of fludioxonil-containing products per crop cycle.
- The maximum single application rate is 6 oz per 100 gallons of water with a maximum of spray volume of 200 gallons per acre (4.6 gallons spray volume per 1,000 square feet).

Use Information

Palladium controls foliar and stem diseases of ornamentals caused by *Botrytis* spp., *Rhizoctonia* spp., *Cercospora* spp., *Alternaria* spp., *Septoria* spp., and *Myrothecium* spp. and certain other pathogens when applied on a regular schedule as a full coverage spray.

Palladium may be used on container, bench, flat, plug, bed or field-grown ornamentals in field nursery plantings, forest nurseries, commercial landscapes, greenhouses, lath and shade houses.

Apply Palladium as a foliar spray at the rates listed in Table 1 when plants are dry or nearly dry. Apply just to runoff, when conditions are favorable for disease development. Under severe disease conditions, use the highest rate and shortest interval corresponding with the application schedule from Table 1.

Plant Safety

Palladium has been shown to be safe when applied at the recommended rates to the ornamental plants listed in Tables 2 and 3. However, due to the large number of genera, species and varieties of ornamental and nursery plants, it is impossible to test every one for tolerance to Palladium. Neither the manufacturer nor the seller has determined whether Palladium can be used safely on genera, species, or varieties of ornamental and nursery plants not specified on this label. The professional user should conduct small scale testing at the required rates to ensure plant safety prior to broad scale commercial use on plant genera and species not listed in this label.

- Avoid excessive runoff that reaches the soil when applying Palladium to small plants or to plants where there is little plant matter in relation to media/soil since plants noted to be safe to Palladium (see Tables 2 and 3) were tested for foliar applications only. Excessive runoff of Palladium spray or drenches to soil/media may result in stunting or chlorosis.
- Seedling applications or excessive runoff of Palladium sprays to Impatiens or New Guinea Impatiens may cause stunting and/ or chlorosis.
- Foliar applications or excessive runoff of Palladium sprays to some Geranium varieties may cause stunting or chlorosis at higher rates. Responses may vary depending on environmental conditions. Test Palladium in a limited area to evaluate for any possible damage before proceeding with treatment of the entire crop.

Table 1. Diseases Controlled with Palladium

Diseases	Rate (oz/ 100 gal) ¹	Remarks
Alternaria Leaf Blight (Alternaria spp.) Anthracnose leaf spot (Colletotrichum spp.) Cercospora leaf spot (Cercospora spp.) Cylindrocladium stem rot (Cylindrocladium spp.) Fusarium blight & stem rot (Fusarium spp.) Myrothecium Leaf Spot and Blight (Myrothecium spp.) Phoma basal rot (Phoma exigua) Phomopsis dieback (Phomopsis vaccinii) Rhizoctonia aerial blight (Rhizoctonia spp.)	2-4	Begin applications prior to or at the onset of disease, and repeat applications at 7 to 14-day intervals if conditions remain favorable for disease development. For stem diseases, ensure full spray coverage of all stems and inner areas of plants to the soil/media level.

continued...

Table 1. Diseases Controlled with Palladium (continued)

Diseases	Rate (oz/ 100 gal) ¹	Remarks
Septoria leaf spot (Septoria spp.) Sclerotinia Blight & Stem Rot (Sclerotinia spp.) Southern Blight (Sclerotium rolfsii)	2-4	Begin applications prior to or at the onset of disease, and repeat applications at 7 to 14-day intervals if conditions remain favorable for disease development. For stem diseases, ensure full spray coverage of all stems and inner areas of plants to the soil/media level.
Powdery Mildew (Erysiphe polygoni) (Sphaerotheca macularis) Scorch (Stagnospora curtisii)	4-6	Make early preventative applications for powdery mildew and scorch control.
Botrytis Blight & Gray Mold (Botrytis spp.)	4-6	Spray at 7 to 14-day intervals while conditions are favorable for disease development.

¹Apply in sufficient water for adequate coverage. DO NOT exceed 200 gallon spray volume per acre (4.6 gal per 1000 sq ft). The required minimum spray volume is 50 gal/A (1.15 gal per 1000 sq ft).

Table 2. Plant species found to be safe when Palladium is applied according to the use directions in this label.

Abution - Variegated Flowering Maple Acalypha - Chenille, Red-Hot Cat Tail

Ageratum Alternanthera - Joseph's Coat

Alyssum

Antirrhinum - Snapdragon

Aptenia

Astilbe - Bridal Veil

Begonia

Brachycome - Swan River Daisy

Caladium

Calendula - Pot Marigold, Poet's Marigold

Callisia - Bolivian Jew, Turtlevine Calibrachoa - Trailing Petunia Celosia - Cockscomb

Centrosa

Chlorophytum - Spider Plant

Coleus Cosmos

Cuphea - Mexican Heather

Daffodil Dahlia - Dahlietta

Dianthus

Dicentra - Bleeding Heart Dimorphotheca - African Daisy

Fuchsia

Gerbera Daisy Hedera helix - English ivy Helichrysum - Strawflower Helianthus - Sunflower

Hypoestes - Polka Dot Plant

Ipomoea - Moonflower, Moonvine

lresine spp. Iris, bulbous Lamium Lantana Lily - Asiatic Listhianthus *Lysimachia* spp. Marigold

continued...

Table 2. Plant species found to be safe when Palladium is applied according to the use directions in this label. (continued)

Mexican Heather Scaevola Senecio cineraria - Dusty Miller Setcreasea - Wandering Jew Nephthytis Nemesia Snapdragon Osteospermum - Cape daisy

Oxalis Spathiphyllum

Streptocarpella - Dancing Flowers Pachysandra Strobilanthus Pansy Sunflower Pentas

Persicaria - Fleece Flower Petunia

Syngonium - Nephytis Tagetes - African, Mexican Marigold Philodendron

Plectranthus - Swedish Ivy Teucrium - Germander Torenia - Wishbone Flower Poinsettia** Portulaca Tradescantia - Purple Heart

Pothos Tulips Purslane - Red Verbena Rose Vinca Salvia Zinnia

^{*}Do not apply Palladium to leather leaf fern or other field grown fern intended for cutting/harvest for floral arrangements.

**Palladium may result in visible residue at high use rates and short spray intervals once Poinsettia bracts are in full color. Use of nonionic surfactants may help reduce spray residue and spotting but should first be tested on a small number of plants for safety before making large scale applications.

STORAGE AND DISPOSAL

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

Pesticide Storage

Store in original containers in a cool, dry, secure place.

Pesticide Disposal

Wastes resulting from use of this product may be disposed of on site or at an approved waste disposal facility.

Container Disposal

Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

Residue Removal

Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

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For non-emergency (e.g., current product information), call Syngenta Crop Protection at 1-800-334-9481.

Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1328A-L1A 0110 4033340

GROUP 9 12 FUNGICIDES



Fungicide

A fungicide for control of Botrytis and other diseases in ornamentals.

Active Ingredients:
Cyprodinil* 37.5%

*CAS No. 121552-61-2 **CAS No. 131341-86-1

Palladium is a water-dispersible granule.

See additional precautionary statements and directions for use inside booklet.

AGRICULTURAL USE REOUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. Refer to supplemental labeling under "Agricultural Use Requirements" in the Directions for Use section for information about this standard.

EPA Reg. No. 100-1328 EPA Est. 67545-AZ-1

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Manufactured for: Syngenta Crop Protection, LLC P.O. Box 18300 Greensboro, North Carolina 27419-8300

SCP 1328A-L1A 0110 4033340

KEEP OUT OF REACH OF CHILDREN.

CAUTION

Precautionary Statements

Hazards to Humans and Domestic Animals

CAUTION

Causes moderate eye irritation. Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet.

FIRST AID

If on skin or clothing: Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 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 cent

first 5 minutes, then continue rinsing eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

HOTLINE NUMBER: For 24 Hour Medical Emergency Assistance (Human or Animal) or Chemical Emergency Assistance (Spill, Leak, Fire, or Accident), Call **1-800-888-8372**.

Environmental Hazards: This pesticide is toxic to fish, aquatic invertebrates, oysters and shrimp. 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 wash water or rinsate.

Storage and Disposal

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

Pesticide Storage: Store in original containers in a cool, dry, secure place.

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

Container Disposal: Non-refillable container. Do not reuse or refill this container. Offer for recycling if available.

Residue Removal: Triple rinse as follows: Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 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.

CONTAINER IS NOT SAFE FOR FOOD, FEED OR DRINKING WATER.

2 pounds Net Weight

