

ORNAMENTAL DISEASES (Commercial)

Sherrie Smith

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|--------------|--------------------------------|-----------|---------------------------------|-------------------|--|
| Bacterial blight (<i>Xanthomonas campestris</i>) Fire blight | Aliette | aluminum tris | 33 | See label. | 12 hours | See label. |
| Bacterial leaf, twig blight Bacterial leaf spot <i>Pseudomonas syringae</i> | Junction | mancozeb + copper hydroxide | M3 + M1 | 1.5 lb/100 gal (1/2 tbs/gal) | 24 hours | Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur. |
| | Junction WSP | mancozeb + copper hydroxide | M3 + M1 | 2.5 lb/100 gal | 48 hours | |
| | Alude | salts of phosphorus acid | 33 | See label. | 4 hours | |
| Downy mildew | Aliette WDG | aluminum tris | 33 | See label. | 12 hours | Rate depends on whether used as soil drench or foliar spray. See label. |
| | Heritage | azoxystrobin | 11 | 1 - 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow drift to apples or crabapples. |
| | Segway | cyazofamid | 21 | 1.5 - 6 fl oz/100 gal | 12 hours | |
| | Stature SC | dimethomorph | 40 | 6.12 - 12.25 fl oz/ 100 gal | 12 hours | DO NOT make more than 8 applications of Stature SC per crop per season for greenhouse-grown ornamentals. |
| | Micora | mandipropamid | 40 | 4 - 8 fl oz/100 gal | 4 hours | Make no more than 2 consecutive applications before switching to another mode of action. |
| | Fenstop | fenamidone | 11 | 7 - 14 fl oz/100 gal | 12 hours | See label for rates for drench applications. |
| | Adorn | fluopicolide | 43 | 1 - 4 fl oz/100 gal | 12 hours | Adorn must be tank-mixed with another labeled fungicide for resistance management. |
| | Subdue MAXX | mefenoxam | 4 | See label. | 48 hours | Rate of Subdue MAXX depends on whether used as soil drench or foliar spray. See label. |
| | Segovis | oxanthiapiprolin | U15 | 0.6 - 2.4 fl oz/100 gal | 4 hours | Make no more than 2 consecutive applications of Segovis before switching to another non-U15 group fungicide. |
| (continued) | Affirm WDG | polyoxin D zinc salts | 19 | 0.7 oz ai/acre | 4 hours | Do not apply more than 3 applications per season. |

ORNAMENTAL DISEASES (Commercial) – continued

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| Downy mildew (<i>cont.</i>) | Insignia SC | pyraclostrobin | 11 | 3 - 12.2 fl oz/100 gal | 12 hours | Use preventatively. |
| | Insignia | pyraclostrobin | 11 | 8 - 16 fl oz/100 gal | 12 hours | Use preventatively. |
| | Alude | salts of phosphorus acid | 33 | See label. | 4 hours | Rate depends on whether used as soil drench or foliar spray. See label. |
| | Compass O 50 WDG | trifloxystrobin | 11 | 0.5 - 4 oz/100 gal | 12 hours | Start applications when conditions are favorable for disease development. |
| Phytophthora Pythium | Aliette | aluminum tris | 33 | See label. | 12 hours | Rate depends on whether used as soil drench or foliar spray. See label. |
| | Heritage (not labeled for pythium except turf) | azoxystrobin | 11 | 1 - 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow drift to apples or crabapples. |
| | Mural | azoxystrobin + benzovindiflupyr | 11 + 7 | 3 - 7 oz/100 gal | 12 hours | Rate depends on whether used as soil drench or foliar spray. See label. |
| | Segway | cyazofamid | 21 | 1.5 - 6 fl oz/100 gal | 12 hours | Group 21 fungicide. Crown rots and damping off. 14 - 28 day interval. |
| | Stature SC (not labeled for pythium) | dimethomorph | 40 | 6.12 - 12.25 fl oz/ 100 gal | 12 hours | DO NOT make more than 8 applications of Stature SC per crop per season for greenhouse-grown ornamentals. |
| | Banrot 40 WP/8 G | etridiazole + thiophanate-methyl | 14 + 1 | 3 - 12 oz/100 gal | 12 hours | For use in commercial greenhouses only. Rate depends on crop. See label. |
| | Fenstop | fenamidone | 11 | 7 - 14 fl oz/100 gal | 12 hours | See label for rates for drench applications. |
| | Hurricane | fludioxonil + mefenoxam | 12 + 4 | See label. | 48 hours | Do not apply more than 2 pt of drench mixture per sq foot of application. |
| | Hurricane WDG | fludioxonil + mefenoxam | 12 + 4 | 0.75 - 1.5 oz/100 gal | 48 hours | Rate depends on application method. See label. |
| | Adorn | fluopicolide | 43 | 1 - 4 fl oz/100 gal | 12 hours | Adorn must be tank-mixed with another labeled fungicide for resistance management. |
| | Subdue MAXX | mefenoxam | 4 | See label. | 48 hours | |
| | Micora (not labeled for pythium) | mandipropamid | 40 | 4 - 8 fl oz/100 gal | 4 hours | Apply Micora as a foliar and stem spray on a 7 - 14 day interval. |

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ORNAMENTAL DISEASES (Commercial) – continued

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| Phytophthora (<i>cont.</i>) Pythium | Segovis (not labeled for pythium) | oxanthiapiprolin | U15 | 0.6 - 2.4 fl oz/100 gal | 4 hours | Make no more than 2 consecutive applications before switching to another non-U15 group fungicide. |
| | Insignia SC | pyraclostrobin | 11 | 3 - 12.2 fl oz/100 gal | 12 hours | Use preventatively. |
| | Insignia | pyraclostrobin | 11 | 8 - 16 fl oz/100 gal | 12 hours | |
| | Alude | salts of phosphorus acid | 33 | See label. | 4 hours | Rate depends on whether used as soil drench or foliar spray. See label. |
| | Compass O 50 WDG (not labeled for pythium) | trifloxystrobin | 11 | 0.5 - 4 oz/100 gal | 12 hours | Start applications when conditions are favorable for disease development. |
| | Strike Plus 50 WDG | trifloxystrobin + triadimefon | 11 + 3 | 3 - 9 oz/100 gal | 12 hours | Apply as a full coverage spray to the point of drip. Repeat at 14 - 28 day intervals. |
| Black root rot (<i>Thielaviopsis</i> spp.) | Banrot 40 WP/8 G | etridiazole + thiophanate-methyl | 14 + 1 | 3 - 12 oz/100 gal | 12 hours | For use in commercial greenhouses only. Rate depends on crop. See label. |
| | Medallion | fludioxonil | 12 | 1 - 4 oz/100 gal (foliar spray) | 12 hours | See label for specific instructions on growing media mix and medium drench. |
| | Medallion WDG | fludioxonil | 12 | 1 - 4 oz/100 gal | 12 hours | See label for specific instructions on growing media mix and medium drench. |
| | Affirm WDG | polyoxin D zinc salts | 19 | 0.7 oz ai/acre | 4 hours | Do not apply more than 3 applications per season. |
| | Compass O 50 WDG | trifloxystrobin | 11 | 0.5 - 4 oz/100 gal | 12 hours | Start applications when conditions are favorable for disease development. |
| | Terraguard SC | triflumizole | 3 | 2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal) | 12 hours | For optimum disease control, applications should be made prior to or at the first sign of disease. |
| Rhizoctonia aerial blights and root rots | Heritage | azoxystrobin | 11 | 1 - 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow drift to apples or crabapples. |
| | Daconil Ultrix | chlorothalonil | M5 | 1.4 lb/100 gal | 12 hours (for next 6.5 days see label for special precautions) | Begin application at first evidence of disease activity. |

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ORNAMENTAL DISEASES (Commercial) – continued

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| Rhizoctonia aerial blights and root rots <i>(cont.)</i> | Pegasus HPX | chlorothalonil | M5 | 1 3/8 pt/100 gal | 12 hours (for next 6.5 days see label for special precautions) | Fruits and other structures which may be borne on treated plants must not be eaten. |
| | Pegasus DFX | chlorothalonil | M5 | 1.25 lb/100 gal | 12 hours (for next 6.5 days see label for special precautions) | Fruits and other structures which may be borne on treated plants must not be eaten. |
| | Pegasus 6 L | chlorothalonil | M5 | 1 3/8 pt/100 gal | 12 hours (for next 6.5 days see label for special precautions) | Fruits and other structures which may be borne on treated plants must not be eaten. |
| | Banrot 40 WP/8 G | etridiazole + thiophanate-methyl | 14 + 1 | 3 - 12 oz/100 gal | 12 hours | For use in commercial greenhouses only. Rate depends on crop. See label. |
| | Palladium | cyprodinil + fludioxonil | 9 + 12 | 2 - 4 oz/100 gal | 12 hours | For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level. |
| | Medallion | fludioxonil | 12 | 1 - 4 oz/100 gal (foliar spray) | 12 hours | For indoor drench applications use up to 30 oz Medallion per 1,000 sq ft. |
| | Medallion WDG | fludioxonil | 12 | 1 - 4 oz/100 gal | 12 hours | See label for specific instructions on growing media mix and medium drench. |
| | Hurricane | fludioxonil + mfenoxam | 12 + 4 | See label. | 48 hours | Do not apply more than 2 pt of drench mixture per sq foot of application. |
| | Prostar 70 WP | flutolanil | 7 | 3 - 12 oz/100 gal | 12 hours | Observe for phytotoxicity prior to each application and 2 weeks after final application. |
| | 26 GT | iprodione | 2 | 1 - 13 fl oz | 12 hours | Rate depends on application method. See label. Do not use as a drench on impatiens or pothos. |
| | 26019 N/G | iprodione | 2 | See label. | 12 hours | |
| | 26019 | iprodione | 2 | 1 - 6.5 lb/acre | 12 hours | |
| | 3336 EG | thiophanate-methyl | 1 | 12 - 24 oz/100 gal | 12 hours | May be used as a foliar, root dip or soil drench application. See label. |
| | 3336 WP | thiophanate-methyl | 1 | 12 - 24 oz/100 gal | 12 hours | |
| | 3336 F | thiophanate-methyl | 1 | 12 - 24 fl oz/100 gal | 12 hours | |

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ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
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| Rhizoctonia aerial blights and root rots (<i>cont.</i>) | TwoSome | thiophanate-methyl + iprodione | 1 + 2 | 17 - 34 fl oz/100 gal | 24 hours | May be used as a foliar, root dip or soil drench application. See label. |
| | 26/36 | thiophanate-methyl + iprodione | 1 + 2 | 17 - 34 fl oz/100 gal | 12 hours | |
| | Compass O 50 WDG | trifloxystrobin | 11 | 0.5 - 4 oz/100 gal | 12 hours | Start applications when conditions are favorable for disease development. |
| | Terraguard SC | triflumizole | 3 | 2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal) | 12 hours | For optimum disease control, applications should be made prior to or at the first sign of disease. |
| Soilborne Fusarium | Heritage | azoxystrobin | 11 | 1 - 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow drift to apples or crabapples. |
| | Palladium | cyprodinil + fludioxonil | 9 + 12 | 2 - 4 oz/100 gal | 12 hours | For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level. |
| | Banrot 40 WP/8 G | etridiazole + thiophanate-methyl | 14 + 1 | 3 - 12 oz/100 gal | 12 hours | For use in commercial greenhouses only. Rate depends on crop. See label. |
| Southern blight (<i>Sclerotium rolfsii</i>) | Heritage | azoxystrobin | 11 | 1 - 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow drift to apples or crabapples. |
| | Palladium | cyprodinil + fludioxonil | 9 + 12 | 2 - 4 oz/100 gal | 12 hours | For stem diseases, ensure full coverage of all stems and inner areas of plant to the soil/media level. |
| | Medallion | fludioxonil | 12 | 1 - 4 oz/100 gal (foliar spray) | 12 hours | For indoor drench applications use up to 30 oz Medallion per 1,000 sq ft. |
| | Medallion WDG | fludioxonil | 12 | 1 - 4 oz/100 gal | 12 hours | See label for specific instructions on growing media mix and medium drench. |
| | Torque | tebuconazole | 3 | 4 - 10 fl oz/100 gal | 12 hours | Apply every 14 days for a total of 3 applications beginning at the first sign of disease. |

ORNAMENTAL DISEASES (Commercial) – continued

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|---|----------------|--------------------------|------------------|----------------|---|--|
| Alternaria leaf spot | Heritage | azoxystobin | 11 | 4 oz/100 gal | 4 hours | See label for specific rates. Do not allow Heritage drift to apples or crabapples. |
| Anthracnose | | | | | | |
| Botrytis | | | | | | |
| Cercospora | | | | | | |
| Cladosporium leaf spot | | | | | | |
| Cylindrocladium leaf spot/ stem canker | | | | | | |
| Entomosporium leaf spot | | | | | | |
| Iris leaf spot | | | | | | |
| Rose black spot | | | | | | |
| Myrothecium leaf spot | | | | | | |
| Scab | | | | | | |
| Marssonina leaf spot | | | | | | |
| Powdery mildew | | | | | | |
| Actinopelte leaf spot | Daconil Ultrix | chlorothalonil | M5 | 1.4 lb/100 gal | 12 hours (for next 6.5 days see label for special precautions) | Fruits and other structures which may be borne on chlorothalonil-treated plants must not be eaten. |
| Alternaria leaf spot/ leaf blight | | | | | | |
| Anthracnose leaf blotch/spot | | | | | | |
| Anthracnose (Discula) blight | | | | | | |
| Ascochyta blight | | | | | | |
| Bipolaris (Helminthosporium) leaf spot | | | | | | |
| Black spot on roses | | | | | | |
| Botrytis leaf spot/leaf blight | | | | | | |
| Cephalosporium leaf spot | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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| <i>(cont.)</i> Cercospora leaf spot | Daconil Ultrix <i>(cont.)</i> | | | | | |
| Cercosporidium leaf spot | | | | | | |
| Coryneum blight (shot hole) | | | | | | |
| Corynespora leaf spot | | | | | | |
| Curvularia leaf spot | | | | | | |
| Cylindrosporium leaf spot | | | | | | |
| Dactylaria leaf spot | | | | | | |
| Didymellina leaf spot | | | | | | |
| Drechslera leaf spot/ ink spot | | | | | | |
| (Drechslera) tan leaf spot (Curvularia) | | | | | | |
| Fabraea (Entomosporium) leaf spot | | | | | | |
| Fusarium leaf spot | | | | | | |
| Gloeosporium black leaf spot | | | | | | |
| Marssonina leaf spot | | | | | | |
| Monilinia blossom blight/ twig blight | | | | | | |
| Mycosphaerella ray blight | | | | | | |
| Myrothecium leaf spot | | | | | | |
| Nematostoma leaf blight | | | | | | |
| Phyllosticta leaf spot | | | | | | |
| Ramularia leaf spot | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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| <i>(cont.)</i> Rhizoctonia web blight | Daconil Ultrix <i>(cont.)</i> | | | | | |
| Septoria leaf spot | | | | | | |
| Sphaeropsis leaf spot | | | | | | |
| Stagonospora leaf scorch | | | | | | |
| Volutella leaf blight | | | | | | |
| Actinopelte leaf spot | Pegasus HPX | chlorothalonil | M5 | 1 3/8 pt/100 gal | 12 hours (for next 6.5 days see label for special precautions) | |
| Alternaria leaf spot/leaf blight | | | | | | |
| Anthracnose (Gnomonia, Glomerella, Colletotrichum, Discula) blights | | | | | | |
| Black spot (Diplocarpon) | | | | | | |
| Botrytis blights | | | | | | |
| Cephalosporium leaf spot | | | | | | |
| Cercospora leaf spot | | | | | | |
| Cercosporidium leaf spot | | | | | | |
| Corynespora stem/leaf spot | | | | | | |
| Curvularia leaf spot | | | | | | |
| Dactylaria leaf spot | | | | | | |
| Didymellina leaf spot | | | | | | |
| Drechslera (Bipolaris) leaf spot/ink spot | | | | | | |
| Fabraea (Entomosporium) leaf spot | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------------------|--------------------------|------------------|-----------------|---|-----------------|
| <i>(cont.)</i> Fusarium (Gibberella) leaf spot | Pegasus HPX <i>(cont.)</i> | | | | | |
| Gloeosporium black leaf spot | | | | | | |
| Marssonina leaf spot | | | | | | |
| Monilinia blossom blight/ twig blight | | | | | | |
| Mycosphaerella ray blight | | | | | | |
| Myrothecium leaf spot/ brown rot | | | | | | |
| Phyllosticta leaf spot | | | | | | |
| Ramularia leaf spot | | | | | | |
| Rhizoctonia web blight | | | | | | |
| Scab (Venturia) | | | | | | |
| Septoria leaf spot | | | | | | |
| Sphaeropsis leaf spot | | | | | | |
| Stagonospora leaf scorch | | | | | | |
| Stigmina shot hole | | | | | | |
| Tan leaf spot (Curvularia) | | | | | | |
| Volutella leaf blight | | | | | | |
| Actinopelte leaf spot | Pegasus DFX | chlorothalonil | M5 | 1.25 lb/100 gal | 12 hours (for next 6.5 days see label for special precautions) | |
| Alternaria leaf spot/leaf blight | | | | | | |
| Anthracnose (Gnomonia, Glomerella, Colletotrichum, Discula) blights | | | | | | |
| Black spot (Diplocarpon) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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|---|----------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> Botrytis blights | Pegasus DFX <i>(cont.)</i> | | | | | |
| Cephalosporium leaf spot | | | | | | |
| Cercospora leaf spot | | | | | | |
| Cercosporidium leaf spot | | | | | | |
| Corynespora stem/leaf spot | | | | | | |
| Curvularia leaf spot | | | | | | |
| Dactylaria leaf spot | | | | | | |
| Didymellina leaf spot | | | | | | |
| Drechslera (Bipolaris) leaf spot/ink spot | | | | | | |
| Fabraea (Entomosporium) leaf spot | | | | | | |
| Fusarium (Gibberella) leaf spot | | | | | | |
| Gloeosporium black leaf spot | | | | | | |
| Marssonina leaf spot | | | | | | |
| Monilinia blossom blight/ twig blight | | | | | | |
| Mycosphaerella ray blight | | | | | | |
| Myrothecium leaf spot/ brown rot | | | | | | |
| Phyllosticta leaf spot | | | | | | |
| Ramularia leaf spot | | | | | | |
| Rhizoctonia web blight | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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|--|----------------------------|--------------------------|------------------|------------------|---|-----------------|
| <i>(cont.)</i> Scab (Ventura) | Pegasus DFX <i>(cont.)</i> | | | | | |
| Septoria leaf spot | | | | | | |
| Sphaeropsis leaf spot | | | | | | |
| Stagonospora leaf scorch | | | | | | |
| Stigmina shot hole | | | | | | |
| Tan leaf spot (Curvularia) | | | | | | |
| Volutella leaf blight | | | | | | |
| Actinopelte leaf spot | Pegasus 6L | chlorothalonil | M5 | 1 3/8 pt/100 gal | 12 hours (for next 6.5 days see label for special precautions) | |
| Alternaria leaf spot/leaf blight | | | | | | |
| Anthracnose (Gnomonia, Glomerella, Colletotrichum, Discula) blights | | | | | | |
| Black spot (Diplocarpon) | | | | | | |
| Botrytis blight | | | | | | |
| Cephalosporium leaf spot | | | | | | |
| Cercospora leaf spot | | | | | | |
| Cercosporidium leaf spot | | | | | | |
| Corynespora stem/leaf spot | | | | | | |
| Curvularia leaf spot | | | | | | |
| Dactylaria leaf spot | | | | | | |
| Didymellina leaf spot | | | | | | |
| Drechslera (Bipolaris) leaf spot/ink spot | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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|--|---------------------------|-----------------------------------|------------------|-----------------------|--------------------------|--|
| <i>(cont.)</i> Fabraea (Entomosporium) leaf spot | Pegasus 6L <i>(cont.)</i> | | | | | |
| Fusarium (Gibberella) leaf spot | | | | | | |
| Gloeosporium black leaf spot | | | | | | |
| Marssonina leaf spot | | | | | | |
| Monilinia blossom blight/ twig blight | | | | | | |
| Mycosphaerella ray blight | | | | | | |
| Myrothecium leaf spot/ brown rot | | | | | | |
| Phyllosticta leaf spot | | | | | | |
| Ramularia leaf spot | | | | | | |
| Rhizoctonia web blight | | | | | | |
| Scab (Venturia) | | | | | | |
| Septoria leaf spot | | | | | | |
| Sphaeropsis leaf spot | | | | | | |
| Stagonospora leaf scorch | | | | | | |
| Stigmina shot hole | | | | | | |
| Tan leaf spot (Curvularia) | | | | | | |
| Volutella leaf blight | | | | | | |
| Alternaria spp. | Concert II | chlorothalonil + propiconazole | M5 + 3 | 26 - 35 fl oz/100 gal | 12 hours | Do not use Concert II in greenhouses. Apply every 21 days. |
| Ascochyta chrysanthemi (ray blight) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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|--|---------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> | Concert II <i>(cont.)</i> | | | | | |
| Botrytis spp. | | | | | | |
| Cercospora spp. | | | | | | |
| Cladosporium spp. (scab) | | | | | | |
| Coccomyces hiemalis | | | | | | |
| Collectrichum spp. | | | | | | |
| Corynespora leaf spot | | | | | | |
| Diplocarpon rosae (black spot) | | | | | | |
| Discula spp. (Anthracnose) | | | | | | |
| Fabraea maculata (syn. Entomosporium maculata) | | | | | | |
| Gnomonia leptostyla (Anthracnose) | | | | | | |
| Heterosporium echinulatum | | | | | | |
| Monilinia spp. | | | | | | |
| Ovulinia spp. | | | | | | |
| Septoria leaf spot | | | | | | |
| Rhizoctonia web blight | | | | | | |
| Spilocaea pyracanthae | | | | | | |
| Tubakia dryina | | | | | | |
| Venturia inaequalis (scab) | | | | | | |
| Powdery mildew (Erysiphe spp., Microsphaera spp., Oidium spp., Podosphaera spp.) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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| <i>(cont.)</i> Rusts (Gymnosporangium juniperi-virginianae, Melampsora occidentalis, Phragmidium spp., Puccinia spp., Puccinastrum spp., Uromyces dianthi) | Concert II <i>(cont.)</i> | | | | | |
| Alternaria leaf blights (Alternaria spp.) | Palladium | cyprodinil + fludioxonil | 9 + 12 | 2 - 4 oz/100 gal | 12 hours | Foliar applications or excessive runoff of Palladium may cause stunting or chlorosis to geranium at higher rates. |
| Anthracnose leaf spot (Colletotrichum spp.) | | | | | | Make early preventative applications for powdery mildew and scorch. |
| Botrytis blight/gray mold (Botrytis spp.) | | | | | | For other leaf spots, spray at 7 - 14 day intervals while conditions are favorable for disease. |
| Cercospora leaf spot (Cercospora spp.) | | | | | | |
| Cylindrocladium leaf spot (Cylindrocladium spp.) | | | | | | |
| Fusarium blight/stem rot (Fusarium spp.) | | | | | | |
| Myrothecium leaf spot/blight (Myrothecium spp.) | | | | | | |
| Phoma basal rot (Phoma exigua) | | | | | | |
| Phomopsis dieback (Phomopsis vaccinii) | | | | | | |
| Powdery mildew (Ersyphi polygoni) (Sphaerotheca macularis) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

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|--|--------------------------|--------------------------|------------------|------------------------------------|--------------------------|---|
| <i>(cont.)</i> Rhizoctonia aerial blights (Rhizoctonia spp.) Septoria leaf spot (Septoria spp.) Sclerotinia blight/stem rot (Sclerotinia spp.) Scorch (Stagnospora curtisii) Southern blight (Sclerotium rolfsii) | Palladium <i>(cont.)</i> | | | | | |
| Botrytis (Botrytis spp.) | Decree 50 WDG | fenhexamid | 17 | 0.75 - 1.5 lb/100 gal | 12 hours | Preliminary sprays should be used when treating Poinsettia with Degree due to plant sensitivity. |
| Rusts | Prostar 70 WP | flutolanil | 7 | 3 - 12 oz/100 gal | 12 hours | Observe for phytotoxicity prior to each application of Prostar and 2 weeks after final application. |
| Aerial blights (Rhizoctonia spp.) Alternaria leaf blight/spot (Alternaria spp.) Black root rot (Thielaviopsis spp.) Botrytis blight (Botrytis spp.) Cercospora leaf spot (Cercospora spp.) Cylindrocladium stem/root rot (Cylindrocladium spp.) Fusarium stem/root rot (Fusarium spp.) <i>(continued)</i> | Medallion | fludioxonil | 12 | 1 - 4 oz/100 gal (foliar spray) | 12 hours | See Medallion labels for specific instructions on growing media mix and medium drench. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|--------------------------|--------------------------|------------------|------------------|--------------------------|--|
| <i>(cont.)</i> Myrothecium leaf spot/blight (Myrothecium spp.) | Medallion <i>(cont.)</i> | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia spp.) | | | | | | |
| Southern blight (Sclerotium rolfsii) | | | | | | |
| Aerial blights (Rhizoctonia spp.) | Medallion WDG | fludioxonil | 12 | 1 - 4 oz/100 gal | 12 hours | See Medallion labels for specific instructions on growing media mix and medium drench. |
| Alternaria leaf blight/spot (Alternaria spp.) | | | | | | |
| Black root rot (Thielaviopsis spp.) | | | | | | |
| Botrytis blight (Botrytis spp.) | | | | | | |
| Cercospora leaf spot (Cercospora spp.) | | | | | | |
| Cylindrocladium stem/root rot (Cylindrocladium spp.) | | | | | | |
| Fusarium stem/root rot (Fusarium spp.) | | | | | | |
| Myrothecium leaf spot/blight (Myrothecium spp.) | | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia spp.) | | | | | | |
| Southern blight (Sclerotium rolfsii) | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|-------------|--------------------------|--|
| Aerial web blight (Rhizoctonia sp.) | 26 GT | iprodione | 2 | 1 - 3 fl oz | 12 hours | Do not use as a drench on impatiens or pothos. |
| Alternaria leaf blight (Alternaria euphorbiae) | | | | | | PLANT TOLERANCE: Plant tolerances to 26 GT fungicide have been found to be acceptable in the specific genera and species listed on this label. It is not possible to evaluate every species or variety of ornamental plant for its tolerance to 26 GT fungicide. The user should test for possible phytotoxic responses in other plants on a small area basis using recommended rates prior to commercial use. |
| Alternaria leaf spot (Alternaria panax, Alternaria tenuissima) | | | | | | |
| Alternaria leaf blight (Alternaria zinniae) | | | | | | |
| Botrytis blight (Botrytis sp.) | | | | | | |
| Fusarium leaf spot (Fusarium moniliforme) | | | | | | |
| Helminthosporium leaf spot (Helminthosporium sp.) | | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia sp.) | | | | | | |
| Ink spot (Drechslera iridis) | | | | | | |
| Tulip fire (Botrytis tulipae) | | | | | | |
| Ray blight (Ascochyta chrysanthami) | | | | | | |
| Fusarium corm rot (Fusarium oxysporum) | | | | | | |
| Daffodil leaf scorch (Stagnospora curtissi) | | | | | | |
| Blossom blight (Monilinia fructicola) | | | | | | |
| Botrytis storage rot (Botrytis sp.) | | | | | | |
| Cylindrocladium blight/wilt (Cylindrocladium scoparium) | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|-------------|--------------------------|---|
| Aerial web blight (Rhizoctonia sp.) | 26019 N/G | iprodione | 2 | See label. | 12 hours | Rate depends on application method. See label. |
| Alternaria leaf blight (Alternaria euphorbiae) | | | | | | |
| Alternaria leaf spot (Alternaria panax, Alternaria tenuissima) | | | | | | |
| Alternaria leaf blight (Alternaria zinniae) | | | | | | |
| Botrytis blight (Botrytis sp.) | | | | | | |
| Blossom blight (Monilinia fructicola) | | | | | | |
| Botrytis storage rot (Botrytis sp.) | | | | | | |
| Daffodil leaf scorch (Stagnospora curtissi) | | | | | | |
| Cylindrocladium blight/wilt (Cylindrocladium scoparium) | | | | | | |
| Fusarium leaf spot (Fusarium moniliforme) | | | | | | |
| Fusarium corm rot (Fusarium oxysporum) | | | | | | |
| Helminthosporium leaf spot (Helminthosporium sp.) | | | | | | |
| Ink spot (Drechslera iridis) | | | | | | |
| Ray blight (Ascochyta chrysanthami) | | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia sp.) | | | | | | |
| Tulip fire (Botrytis tulipae) | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|-----------------|--------------------------|---|
| Aerial web blight (Rhizoctonia sp.) | 26019 | iprodione | 2 | 1 - 6.5 lb/acre | 12 hours | Rate depends on application method. See label. |
| Alternaria leaf blight (Alternaria euphorbiae) | | | | | | |
| Alternaria leaf spot (Alternaria panax, Alternaria tenuissima) | | | | | | |
| Alternaria leaf blight (Alternaria zinniae) | | | | | | |
| Botrytis blight (Botrytis sp.) | | | | | | |
| Blossom blight (Monilinia fructicola) | | | | | | |
| Botrytis storage rot (Botrytis sp.) | | | | | | |
| Daffodil leaf scorch (Stagnospora curtissi) | | | | | | |
| Cylindrocladium blight/wilt (Cylindrocladium scoparium) | | | | | | |
| Fusarium leaf spot (Fusarium moniliforme) | | | | | | |
| Fusarium corm rot (Fusarium oxysporum) | | | | | | |
| Helminthosporium leaf spot (Helminthosporium sp.) | | | | | | |
| Ink spot (Drechslera iridis) | | | | | | |
| Ray blight (Ascochyta chrysanthami) | | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia sp.) | | | | | | |
| Tulip fire (Botrytis tulipae) | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------|--------------------------|------------------|------------------|--------------------------|--|
| Actinopelte leaf spot (now Tubakia spp.) | Mancozeb DG | mancozeb | M3 | 1 - 2 lb/100 gal | 24 hours | Begin spraying when plants are well leafed out, or at the first sign of disease at 7 - 10 day intervals. Do not use on food plants. See label for individual diseases. |
| Alternaria leaf spot | | | | | | |
| Anthracnose | | | | | | |
| Ascochyta blight | | | | | | |
| Botrytis blight/leaf spot | | | | | | |
| Carnation rust | | | | | | |
| Cedar apple rust | | | | | | |
| Cercospora blight/leaf spot | | | | | | |
| Cephalosporium leaf spot | | | | | | |
| Curvularia leaf spot | | | | | | |
| Cylindrocladium rot/ petal blight | | | | | | |
| Cylindrosporium leaf spot | | | | | | |
| Dactylaria leaf spot | | | | | | |
| Discosia leaf spot/petal blight | | | | | | |
| Elm black leaf spot | | | | | | |
| Entomosporium/ Fabraea leaf spot | | | | | | |
| Fusarium leaf spot | | | | | | |
| Fusicladium scab | | | | | | |
| Geranium rust | | | | | | |
| Gloeosporium leaf spot | | | | | | |

(continued)

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> | Mancozeb DG <i>(cont.)</i> | | | | | |
| Guignardia leaf blotch | | | | | | |
| Herpobasidium blight | | | | | | |
| Holly purple spot | | | | | | |
| Iris didymellina leaf spot | | | | | | |
| Larkspur rust | | | | | | |
| Leptosphaeria brown spot | | | | | | |
| Ligustrum cercospora leaf spot | | | | | | |
| Mycosphaerella leaf spot | | | | | | |
| Myrothecium leaf spot | | | | | | |
| Mystrosporium ink spot (formerly Didymellina) | | | | | | |
| Narcissus botrytis blight (fire) | | | | | | |
| Oxalis rust | | | | | | |
| Phomopsis blight | | | | | | |
| Phyllosticta leaf spot | | | | | | |
| Phytophthora twig/bud blight | | | | | | |
| Poplar rust | | | | | | |
| Puccinia rusts | | | | | | |
| Ramularia leaf spot | | | | | | |
| Rhizoctonia aerial blight | | | | | | |
| Rose black spot | | | | | | |
| Scab | | | | | | |
| Septoria leaf spot | | | | | | |
| Snapdragon rust | | | | | | |
| Sphaeropsis leaf spot | | | | | | |
| Taphrina leaf blister | | | | | | |
| Tulip botrytis blight | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|------------------|--------------------------|---|
| Alternaria – leaf spots/ flower blights | Protect DF | mancozeb | M3 | 1 - 2 lb/100 gal | 24 hours | To improve performance, add 2 - 4 oz of an effective spreader-sticker, such as Cleary's Clearyspray, per 100 gallons of spray. Depending upon the life cycle of the listed pathogens, begin spraying either preventatively at bud swell or at bud break, and continue throughout the growing season, or curatively at first sign of disease. Apply at 7 - 21 day intervals throughout the season as disease development conditions persist. |
| Anthracnose blights – Colletotrichum, Discula, Elsinoe, Gloeodes, Gloeosporium, Glomerella, Gnomonia, Guignardia | | | | | | |
| Ascochyta blights | | | | | | |
| Black spot of rose – Diplocarpon black leaf spot of elm | | | | | | |
| Botryosphaeria dieback | | | | | | |
| Botrytis blights, gray mold | | | | | | |
| Brown rot blight – Monolinia, Sclerotinia, Whetzelinia | | | | | | |
| Cephalosporium leaf spot | | | | | | |
| Cercospora | | | | | | |
| Cylindrocladium leaf blight | | | | | | |
| Dactylaria | | | | | | |
| Didymellina | | | | | | |
| Downy mildew – Plasmopara, Peronospora | | | | | | |
| Dreschleria | | | | | | |
| Entomosporium/fabraea | | | | | | |
| Exerohilum | | | | | | |
| Exobasidium blights/flower blights | | | | | | |
| Fusarium leaf spot/blight | | | | | | |

(continued)

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|---------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> | Protect DF <i>(cont.)</i> | | | | | |
| Gray mold – Botrytis ink spot – Ciborinia, Sclerotinia, Whetzelinia | | | | | | |
| Helminthosporium | | | | | | |
| Kabatina dieback leaf spots | | | | | | |
| Leptosphaeria | | | | | | |
| Marssonina | | | | | | |
| Mycosphaerella | | | | | | |
| Ovulinia blight | | | | | | |
| Pestalotia | | | | | | |
| Phyllosticta | | | | | | |
| Phytophthora blight/dieback | | | | | | |
| Ramularia blight | | | | | | |
| Rhabdocline | | | | | | |
| Rhizoctonia aerial/web blight | | | | | | |
| Rhytisma | | | | | | |
| Rusts – Cronartium, Endocronartium, Gymnosporangium, Melampsora, Melampsoridium, Phragmidium, Puccinia, Uromyces | | | | | | |
| Septoria | | | | | | |
| Scab – Fusicladium, Venturia, Sphaceloma, Cladosporium | | | | | | |
| Shot hole leaf spot – Blumeriella, Coccoomyces, Stemphyllium | | | | | | |
| Volutella | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------|-----------------------------|------------------|---------------------------------|--------------------------|---|
| Alternaria twig blight | Junction | mancozeb + copper hydroxide | M3 + M1 | 1.5 lb/100 gal (1/2 tbs/gal) | 24 hours | Do not apply Junction in a spray solution having less than 6.5 pH as phytotoxicity may occur. |
| Anthracnose | | | | | | |
| Aspen, cottonwood leaf rusts | | | | | | See label for full instructions as leaf discoloration may occur on some species. |
| Ash anthracnose | | | | | | |
| Azalea cercospora leaf spot | | | | | | |
| Banana Sigatoka | | | | | | |
| Black knot | | | | | | |
| Botrytis blight | | | | | | |
| Brown rot/blossom/twig blight | | | | | | |
| Buckeye leaf blotch | | | | | | |
| Camellia anthracnose | | | | | | |
| Carnation alternaria blight | | | | | | |
| Cercospora blight/leaf spot | | | | | | |
| Chrysanthemum Septoria leaf spot | | | | | | |
| Cotoneaster scab | | | | | | |
| Dogwood anthracnose | | | | | | |
| Elm black leaf spot | | | | | | |
| Entomosporium leaf spot | | | | | | |
| Euonymus anthracnose | | | | | | |
| Gladiolus alternaria leaf spot, Botrytis gray mold, bacterial leaf blight | | | | | | |
| Herpobasidium leaf blight | | | | | | |
| Leaf blister/plum pockets | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|-------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> | Junction <i>(cont.)</i> | | | | | |
| Leaf spot caused by Alternaria, Ascochyta, Cercospora, Gleosporium, and Phyllosticta | | | | | | |
| Lilac bacteria blight | | | | | | |
| Magnolia Gleosporium leaf spot, algal leaf spot, anthracnose, bacterial leaf spot, leaf blights | | | | | | |
| Maple boxelder anthracnose, fungal leaf spot, leaf blight/blotch, leaf scab, tar spot, leaf blister | | | | | | |
| Ovulinia petal/flower blight | | | | | | |
| Pachysandra volutella leaf blight | | | | | | |
| Phytophthora twig/bud blight | | | | | | |
| Powdery mildew | | | | | | |
| Pyracantha fire blight/scab | | | | | | |
| Rose black spot | | | | | | |
| Scab | | | | | | |
| Septoria leaf spot | | | | | | |
| Sycamore, planetree anthracnose | | | | | | |
| Viburnum downy mildew | | | | | | |
| Willow tar spot, leaf blight, scab, black canker, spot anthracnose | | | | | | |
| Witchhazel fungal leaf spots | | | | | | |
| Zinnia alternaria leaf blight, Botrytis blight | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------|--------------------------------|------------------|----------------|--------------------------|--|
| Alternaria twig blight | Junction WSP | mancozeb + copper hydroxide | M3 + M1 | 2.5 lb/100 gal | 48 hours | See label for complete instruction on rates as some crops require a smaller rate than listed here. |
| Anthracnose | | | | | | |
| Aspen, cottonwood leaf rusts | | | | | | |
| Ash anthracnose | | | | | | |
| Azalea Cercospora leaf spot | | | | | | |
| Banana Sigatoka | | | | | | |
| Black knot | | | | | | |
| Botrytis blight | | | | | | |
| Brown rot, blossom/ twig blight | | | | | | |
| Buckeye leaf blotch | | | | | | |
| Camellia anthracnose | | | | | | |
| Carnation alternaria blight | | | | | | |
| Cercospora blight/leaf spot | | | | | | |
| Chrysanthemum Septoria leaf spot | | | | | | |
| Cotoneaster scab | | | | | | |
| Dogwood anthracnose | | | | | | |
| Elm black leaf spot | | | | | | |
| Entomosporium leaf spot | | | | | | |
| Euonymus anthracnose | | | | | | |
| Gladiolus alternaria leaf spot, Botrytis gray mold, bacterial leaf blight | | | | | | |
| Herpobasidium leaf blight | | | | | | |
| Leaf blister/plum pockets | | | | | | |

(continued)

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|-----------------------------|--------------------------|------------------|-------------|--------------------------|-----------------|
| <i>(cont.)</i> | Junction WSP <i>(cont.)</i> | | | | | |
| Leaf spot caused by Alternaria, Ascochyta, Cercospora, Gleosporium, and Phyllosticta | | | | | | |
| Lilac bacteria blight | | | | | | |
| Magnolia Gleosporium leaf spot, algal leaf spot, anthracnose, bacterial leaf spot, leaf blights | | | | | | |
| Maple boxelder anthracnose, fungal leaf spot, leaf blight/blotch, leaf scab, tar spot, leaf blister | | | | | | |
| Ovulinia petal/flower blight | | | | | | |
| Pachysandra volutella leaf blight | | | | | | |
| Phytophthora twig/bud blight | | | | | | |
| Powdery mildew | | | | | | |
| Pyracantha fire blight, scab | | | | | | |
| Rose black spot | | | | | | |
| Scab | | | | | | |
| Septoria leaf spot | | | | | | |
| Sycamore, planetree anthracnose | | | | | | |
| Viburnum downy mildew | | | | | | |
| Willow tar spot, leaf blight, scab, black canker, spot anthracnose | | | | | | |
| Witchhazel fungal leaf spots | | | | | | |
| Zinnia alternaria leaf blight, Botrytis blight | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|---------------------|--------------------------|--|
| Downy mildew Phytophthora | Micora | mandipropamid | 40 | 4 - 8 fl oz/100 gal | 4 hours | Make no more than 2 consecutive applications before switching to another mode of action. |
| Cercospora Entomosporium/Fabraea Ovulinia Powdery mildew Rusts | Eagle WG | myclobutanil | 3 | 3 fl oz/50-100 gal | 24 hours | See label for complete instructions regarding rates. Apply at 10 - 14 day application schedule unless directed otherwise. |
| Alternaria blight (<i>Alternaria panax</i>)/ petiole rot (<i>Myrothecium</i>) Anthracnose (<i>Colletotrichum</i>) Botrytis blight (<i>Botrytis cinerea</i>) Curvularia Downy mildew (<i>Pernospora</i> sp., <i>Plasmopara</i> sp.) Powdery mildew (<i>Oidium</i> sp., <i>Erysiphe</i> sp., <i>Sphaerotheca</i> sp.) Rhizoctonia aerial blight (<i>Rhizoctonia solani</i>) Apple scab (<i>Venturia inaequalis</i>) Rhizoctonia root and crown rot (<i>Rhizoctonia solani</i>) Black root rot (<i>Thielaviopsis</i>) | Affirm WDG | polyoxin D zinc salts | 19 | 0.7 oz ai/acre | 4 hours | Do not apply more than 3 applications of Affirm per season. When applying for root rots, apply as a soil drench every 14 - 28 days. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---------------------|----------------|--------------------------|------------------|------------------|--------------------------|---|
| Alternaria blights | MilStop | potassium bicarbonate | NC | See label. | 1 hour | Do not use on pansy at early stages of growth. |
| Anthracnose | | | | | | Start applications of Milstop at the first sign of disease. |
| Ascochyta blights | | | | | | |
| Black spot | | | | | | |
| Botrytis | | | | | | |
| Cercospora | | | | | | |
| Corynespora | | | | | | |
| Didymelina | | | | | | |
| Entomosporium | | | | | | |
| Fusarium leaf spot | | | | | | |
| Helminthosporium | | | | | | |
| Ink spot | | | | | | |
| Phomopsis blight | | | | | | |
| Powdery mildew | | | | | | |
| Ovulinia | | | | | | |
| Ramularia | | | | | | |
| Ray blight | | | | | | |
| Scab | | | | | | |
| Septoria | | | | | | |
| Powdery mildew only | Kaligreen | potassium bicarbonate | NC | 1 - 3 lb/100 gal | 4 hours | Use the higher rate when disease pressure is severe. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|----------------------|--------------------------|---|
| Alternaria spp. Ascochyta ray blight Cercospora spp. Cladosporium spp. Coccomyces hiemales Colletotrichum spp. Cristularia spp. Diplocarpon rosae Discula spp. Fabraea/Entomosporium spp. Gnomonia leptostyla Heterosporium echinulatum Monolinia spp. Mycosphaerella carygina, fructicola Ovulinia spp. Powdery mildew, (Oidium sp., Erysiphe sp., Sphaerotheca sp., Microsphaera spp., Phyllatinia spp.) Rusts (Gymnosporangium, Melampsora, Melampsorium, Phragmidium, Puccinia, Uromyces dianthi, Pucciniastrum goeppertianein) Rhizoctonia web blight Scab, Venturia inaequalis Septoria spp. Spilocaea pyracantha Tubakia dryina | Banner MAXX | propiconazole | 3 | 2 - 24 fl oz/100 gal | 24 hours | Rate depends on crop and disease. See label. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|-------------------|--------------------------|------------------|----------------------|--------------------------|--|
| Ascochyta ray blight Cercospora spp. Cladosporium spp. Coccomyces hiemales Colletotrichum spp. Cristularia spp. Diplocarpon rosae Discula spp. Fabraea/Entomosporium spp. Gnomonia leptostyla Heterosporium echinulatum Monolinia spp. Mycosphaerella carygina, fructicola Ovulinia spp. Powdery mildew (Oidium sp., Erysiphe sp., Sphaerotheca sp., Microsphaera spp., Phyllatinia spp.) Rusts (Gymnosporangium, Melampsora, Melampsoridium, Phragmidium, Puccinia, Uromyces dianthi, Pucciniastrum goeppertianein) Rhizoctonia web blight Scab, Venturia inaequalis Septoria spp. Spilocaea pyracantha Tubakia dryina | ProPensity 1.3 ME | propiconazole | 3 | 2 - 24 fl oz/100 gal | 24 hours | For general landscape use apply 6 - 8 fl oz/100 gal every 21 days before the onset of disease. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|--------------------------|--------------------------|------------------|------------------------------|--------------------------|---|
| Anthracnose – Colletotrichum spp., Gloeosporium spp. | Insignia SC Intrensic | pyraclostrobin | 11 | 1.5 - 12.2 fl oz/ 100 gal | 12 hours | Use preventatively. |
| Blossom blight, Monilinia blossom blight, Monilinia spp. | | | | | | |
| Crown and basal rot, Fusarium spp., Phytophthora spp., Pythium spp., Rhizoctonia solani | | | | | | For basal rots, begin application when conditions are favorable for fungal infection, prior to disease symptom development. The crown and base of the plant and the soil or potting medium surrounding the crown must be thoroughly covered. Use 6.1 to 9.1 fl oz on herbaceous plants, such as bedding plants. Use 6.1 to 12.2 fl oz on woody ornamentals. |
| Downy mildew, Peronospora spp. | | | | | | |
| Leaf spot Alternaria spp. | | | | | | |
| Cercospora spp. | | | | | | |
| Cladosporium spp. | | | | | | |
| Mycosphaerella spp. | | | | | | |
| Myrothecium spp. | | | | | | |
| Phyllosticta spp. | | | | | | |
| Didymellina spp. | | | | | | |
| Ramularia spp. | | | | | | |
| Septoria spp. | | | | | | |
| Diplocarpon rosae | | | | | | |
| Entomosporium sp. | | | | | | |
| Phytophthora aerial blight and Pythium, Phytophthora spp., Pythium spp. | | | | | | For pythium and Phytophthora use preventatively. Begin application when conditions are favorable for fungal infection, prior to disease symptom development. Use 6.1 to 9.1 fl oz on herbaceous plants, such as bedding plants. Use 6.1 to 12.2 fl oz on woody ornamentals. |

(continued)

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|---|---------------------------|------------------|-------------------|--------------------------|--|
| <i>(cont.)</i> Powdery mildew Erysiphe sp., Microsphaera sp., Oidium sp., Phyllactinia sp., Podosphaera sp., Sphaerotheca sp., Uncinula sp. | Insignia SC Intrensic <i>(cont.)</i> | | | | | |
| Ornamental bulbs disease (Rhizoctonia blight, Rhizoctonia solani, Botrytis rot, Botrytis cinerea, B. tulipae, Sclerotinia rot, Sclerotinia spp., bulb rot/mold, Fusarium spp., Penicillium spp.) | | | | | | |
| Rust Puccinia spp. (Gymnosporangium spp. and Melampora spp., Gymnosporangium spp., Melampora spp.) | | | | | | |
| Scab Venturia spp. | | | | | | |
| Soilborne disease (Fusarium spp., Phytophthora spp., Pythium spp., Rhizoctonia) | | | | | | |
| Anthracnose, Colletotrichum spp. | Pageant | pyraclostrobin + boscalid | 7 + 11 | 4 - 18 oz/100 gal | 12 hours | Use preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. |
| Blossom blight, Monilinia blossom blight, Monilinia spp. | | | | | | |
| Crown and basal rot (Cylindrocladium spp., Fusarium spp., Rhizoctonia solani, Sclerotinia spp.) | | | | | | For crown and basal rots see preventively. Begin applications when conditions are favorable for fungal infection, prior to disease symptom development. The crown and base of the plant and the soil or potting medium surrounding the crown must be thoroughly covered. |
| Downy mildew (Peronospora spp., Plasmopara spp.) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|-----------------|---------------------------|------------------|------------------|--------------------------|---|
| (cont.) Leaf spot (Alternaria spp., Blumeriella spp., Cercospora spp., Helminthosporium spp., Mycosphaerella spp., Myrothecium spp., Phoma spp., Phomopsis spp., Phyllosticta spp., Sphaceloma spp., Wilsonomyces spp.) Phytophthora aerial blight, Phytophthora spp. Powdery mildew (Erysiphe sp., Oidium sp., Podosphaera sp., Sphaerotheca sp., Uncinula sp.) Rot, blight (Botrytis rot, Botryosphaeria spp., Botrytis spp., Coniothyrium spp., Exobasidium spp.) Rust (Puccinia spp., Uromyces spp., Coleosporium spp., Gymnosporangium spp.) Scab (Venturia spp., Cladosporium spp.) | Pageant (cont.) | | | | | |
| Alternaria spp. Botrytis spp. Cercospora spp. Cylindrocladium spp. Myrothecium spp. Powdery mildew Rust (Uromyces) | Pageant TR | pyraclostrobin + boscalid | 7 + 11 | 1 - 2 cans/sq ft | 12 hours | Apply when foliage is dry and temperature is between 60°-80°F. This product has occasionally shown discoloration on plants and open flowers following application to Impatiens and Petunias. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------|--------------------------|------------------|----------------------|--------------------------|--|
| Anthracnose Black spot Powdery mildew Leaf spot Rust Scab Southern blight | Torque | tebuconazole | 3 | 4 - 10 fl oz/100 gal | 12 hours | Apply every 14 days for a total of 3 applications beginning at the first sign of disease. |
| Anthracnose Black spot of rose (Diplocarpon rosae) Brown rot/blight (Monilinia, Sclerotinia, Whetzellinia) Fusicladium and Venturia leaf scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc. Leaf spots/blights (Ascochyta, Blumeriella, Botrytis, Cercospora, Coccomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma) Ovulinia blight Powdery mildew (Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca) <i>(continued)</i> | 3336 EG | thiophanate-methyl | 1 | 12 - 24 oz/100 gal | 12 hours | Apply as buds break or at first sign of disease. Repeat at 7 - 14 day intervals as needed during disease period. For black spot, apply early summer or at first sign of disease. Repeat every 7 - 14 days as needed during disease period. Do not use fruit from treated crabapple or pear trees for food purposes. For leaf spots, apply when disease symptoms first appear. Repeat every 7 - 14 days as needed during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil can be utilized. For Ovulinia, apply as flowers open. Repeat every 7 - 14 days as needed during disease period. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|------------------------|--------------------------|------------------|--------------------|--------------------------|---|
| <p><i>(cont.)</i> Rust diseases (Puccinia, Gymnosporangium, Uromyces)</p> <p>Stem and root rots caused by Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia black root rot, Thielaviopsis</p> | 3336 EG <i>(cont.)</i> | | | | | For stem and root rots, apply as a drench or directed spray using hand held, mechanical or motorized spray equipment, or as a chemigation drench or directed spray using applicable sprinkler irrigation systems, after seeding or sticking of cuttings (8 oz) or after transplanting (12 - 16 oz) to propagation beds, containers, pots, trays, or nursery or landscape beds at a rate to thoroughly soak the growing media through the root zone. |
| <p>Anthracnose</p> <p>Black spot of rose (Diplocarpon rosae)</p> <p>Brown rot/blight (Monilinia, Sclerotinia, Whetzellinia)</p> <p>Fusicladium and Venturia leaf scabs on: Crabapple, Hawthorn, Pear, Mountain Ash, Pyracantha, etc.</p> <p>Leaf spots/blights (Ascochyta, Blumeriella, Botrytis, Cercospora, Coccoomyces, Corynespora, Curvularia, Didymellina, Entomosporium, Fabraea, Fusarium, Ramularia, Rhizoctonia, Marssonina, Mycosphaerella, Myrothecium, Phoma, Physalospora, Schizothyrium, Septoria, Sphaceloma)</p> <p>Ovulinia blight</p> <p>Powdery mildew (Erysiphe, Microsphaera, Phyllactinia, Podosphaera, Oidium, Sphaerotheca)</p> <p><i>(continued)</i></p> | 3336 WP | thiophanate-methyl | 1 | 12 - 24 oz/100 gal | 12 hours | Do not apply to home orchards/fruit trees after fruit set. |
| | | | | | | For leaf spots, apply when disease symptoms first appear. Repeat every 7 - 14 days as needed during disease period. Rotations and/or tank mix combinations with mancozeb (Protect) or chlorothalonil can be utilized. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|-----------------------|--------------------------------|------------------|-----------------------|--------------------------|--|
| <i>(cont.)</i> Rust diseases (Puccinia, Gymnosporangium, Uromyces) | 3336 F <i>(cont.)</i> | | | | | |
| Stem and root rots caused by Botrytis, Cylindrocladium, Fusarium, Gliocladium, Myrothecium, Penicillium, Ramularia, Rhizoctonia, Sclerotinia black root rot, Thielaviopsis | | | | | | |
| Aerial web blight | TwoSome | thiophanate-methyl + iprodione | 1 + 2 | 17 - 34 fl oz/100 gal | 24 hours | Not effective on Cylindrocladium spathiphylli. |
| Alternaria leaf blight | | | | | | Mix 17 - 34 fl oz of this product with 100 gallons of water. Use the lower rates listed for disease prevention or when pest pressure is low. When pest pressures are moderate to high, apply using the higher range of the rates listed. |
| Anthracnose | | | | | | |
| Ascochyta blight/ray blight | | | | | | |
| Black spot | | | | | | |
| Botrytis blight | | | | | | |
| Cercospora leaf spot | | | | | | |
| Corynespora leaf spot | | | | | | |
| Cylindrocladium | | | | | | |
| Didymellina leaf spot | | | | | | |
| Diplodia tip blight | | | | | | |
| Entomosporium leaf spot | | | | | | |
| Fusarium leaf spot/ink spot | | | | | | |
| Fusarium root rot | | | | | | |
| Helminthosporium leaf spot | | | | | | |
| Ovulinia | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|------------------------|--------------------------------|------------------|-----------------------|--------------------------|--|
| <i>(cont.)</i> Phomopsis blight | TwoSome <i>(cont.)</i> | | | | | |
| Powdery mildew | | | | | | |
| Ramularia leaf spot | | | | | | |
| Rhizoctonia blight/root rot | | | | | | |
| Septoria leaf spot | | | | | | |
| Scab | | | | | | |
| Sclerotinia stem, crown and root rot | | | | | | |
| Thielaviopsis rot | | | | | | |
| Aerial web blight (Rhizoctonia sp.) | 26/36 | thiophanate-methyl + iprodione | 1 + 2 | 17 - 34 fl oz/100 gal | 12 hours | Not effective on <i>Cylindrocladium spathiphylli</i> . Do not use as a drench on impatiens, petunias or pothos. |
| Alternaria leaf blight (Alternaria euphorbiae) | | | | | | May be used as a foliar, root dip or soil drench application. See label. |
| Alternaria leaf spot (Alternaria panax, Alternaria tenuissima), (Alternaria zinniae) | | | | | | NOT FOR RESIDENTIAL USE. 26/36 fungicide is a broad-spectrum fungicide that may be applied safely to a wide range of ornamental flowering and foliage plants, either as a foliar spray, drench or dip. Please read specific instructions and use only as directed. |
| Blossom blight (Monilinia fructicola) | | | | | | |
| Botrytis blight (Botrytis sp.) | | | | | | |
| Botrytis storage rot (Botrytis sp.) | | | | | | |
| Daffodil leaf scorch (Stagnospora curtissi) | | | | | | |
| Fusarium leaf spot (Fusarium moniliforme) | | | | | | |
| Fusarium corm rot (Fusarium oxysporum) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------------|--------------------------|------------------|---|--------------------------|--|
| <i>(cont.)</i> Helminthosporium leaf spot (Helminthosporium sp.) | 26/36 <i>(cont.)</i> | | | | | |
| Rhizoctonia stem/root rot (Rhizoctonia sp.) | | | | | | |
| Ink spot (Drechslera iridis) | | | | | | |
| Tulip fire (Botrytis tulipae) | | | | | | |
| Ray blight (Ascochyta chrysanthami) | | | | | | |
| Cylindrocladium blight/wilt (Cylindrocladium scoparium) | | | | | | |
| Flower blight (Ovulinia spp., Sclerotinia spp.) | Bayleton 50 | triadimefon | 3 | 5.5 oz/275 - 550 gal See label for green- house rates | 12 hours | Do not use on edible portions of plants. Applications with hose-end sprayers are permitted only for outdoor use on ornamentals. Use of hose-end sprayer equipment in noncommercial greenhouses (e.g., amusement parks, residential, golf courses, high schools, universities) is prohibited. The maximum application rate for ornamentals (including azaleas) at residential sites is 0.0025 lb ai/gal. |
| Collectotrichum leaf blight/spots | | | | | | |
| Cephalosporium spp. | | | | | | |
| Cerocospora spp. | | | | | | |
| Didymellina spp. | | | | | | |
| Didymascella thujina | | | | | | |
| Entomosporium spp. | | | | | | |
| Exobasidium spp. | | | | | | |
| Powdery mildew (Erysiphe spp., Microsphaera spp., Oidium spp., Podosphaera spp., Phyllactinia spp., Sphaerotheca spp., Uncinula spp.) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|--|----------------------------|--------------------------|------------------|--|--------------------------|--|
| <i>(cont.)</i> Rusts (Coleosporium spp., Cronartium spp., (Fusiform) Gymnosporangium spp., Melampsora spp., Melampsora farlowii, Melampsoridium spp., Peridermium spp., Phragmidium andersonii, Puccinia spp., Uromyces spp., Uredinopsis mirabalis) | Bayleton 50 <i>(cont.)</i> | | | | | |
| Tip blight Sirococcus strobilinus | | | | | | |
| Flower blight (Ovulinia spp., Sclerotinia spp.) | Bayleton FLO | triadimefon | 3 | 5.5 oz/275 - 550 gal See label for greenhouse rates. | 12 hours | Except as noted for specific diseases, mix 5.5 fl oz of Bayleton FLO Turf and Ornamental Fungicide in 275 to 550 gal of water and apply as a full-coverage foliage spray to the point of drip as needed. |
| Collectotrichum leaf blight/ spots | | | | | | |
| Cephalosporium spp | | | | | | |
| Cerocospora spp. | | | | | | |
| Didymellina spp. | | | | | | |
| Didymascella thujina | | | | | | |
| Entomosporium spp. | | | | | | |
| Exobasidium spp. | | | | | | |
| Powdery mildew (Erysiphe spp., Microsphaera spp., Oidium spp., Podosphaera spp., Phyllactinia spp. Sphaerotheca spp., Uncinula spp.) | | | | | | |
| <i>(continued)</i> | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|-----------------------------|-------------------------------|------------------|------------------|--------------------------|---|
| <i>(cont.)</i> Rusts (Coleosporium spp., Cronartium spp., (Fusiform) Gymnosporangium spp., Melampsora spp., Melampsora farlowii, Melampsoridium spp., Peridesmium spp., Phragmidium andersonii, Puccinia spp., Uromyces spp., Uredinopsis mirabalis) | Bayleton FLO <i>(cont.)</i> | | | | | |
| Tip blight Sirococcus strobilinus | | | | | | |
| Algal leaf spot (Cephaleuros virescens) | Strike Plus 50 WDG | trifloxystrobin + triadimefon | 11 + 3 | 3 - 9 oz/100 gal | 12 hours | Apply as a full-coverage spray to the point of drip. Repeat at 14 - 28 day intervals. |
| Anthrachnose/flower blight Ovulinia spp. | | | | | | Strike Plus 50 WDG contains a site-specific fungicide belonging to the strobilurin class of chemistry. Fungal pathogens are known to develop resistance to fungicides with a specific mode of action. When site-specific fungicides are used without a clear resistance management strategy, resistance development may be rapid, particularly with greenhouse use. |
| Black spot Diclosporium rosae | | | | | | |
| Powdery mildew (Erysiphe spp., Microsphaera spp., Oidium spp., Phyllactinia spp., Podosphaera spp., Sphaerotheca spp., Uncinula spp.) | | | | | | |
| Leaf spot/blights Exobasidium spp. | | | | | | |
| Rust Gymnosporangium spp. (Melampsoridium spp., Phragmidium andersonii, Uromyces spp., Melampsora farlowii, Uredinopsis mirabalis spp., Melampsora pinitorqua, Cronartium spp., Peridesmium spp.) | | | | | | |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|------------------|--------------------------|------------------|--------------------|--------------------------|--|
| Alternaria, Alternaria spp. Anthracnose, Colletotrichum spp. Black root Triclaviopsis spp. Powdery mildew (Erysiphe spp., Microsphaera spp., Oidium spp., Podosphaera spp., Sphaerotheca spp.) Black spot, Diplocarpon rosae Blossom blight, Monilinia spp. Botrytis, Botrytis spp. Cylindrocladium, Cylindrocladium spp. Downy mildew, Peronospora spp. Leaf spot, Septoria spp. Myrothecium, Myrothecium spp. Phytophthora aerial/root rot, Phytophthora parasitica Rhizoctonia stem/root rot, Rhizoctonia solani Rust, (Gymnosporangium spp., Phragmidium spp., Puccinia uromyces) Scab, Cladosporium spp., Sphaceloma spp., Venturia inaequalis | Compass O 50 WDG | trifloxystrobin | 11 | 0.5 - 4 oz/100 gal | 12 hours | Start applications when conditions are favorable for disease development. Compass O exhibits cross-resistance to other strobilurins and fungicides within the Strobilurin Type Action and Resistance group (STAR compounds), but there is no known cross-resistance to fungicides of other classes including sterol inhibitors, dicarboximides, benzimidazoles, anilinopyrimidines, phenylpyrroles or phenylamides. |

ORNAMENTAL DISEASES (Commercial) – continued

| Disease | Product | Active Ingredient | FRAC Code | Rate | Re-entry Interval | Comments |
|---|----------------|--------------------------|------------------|--|--------------------------|---|
| Aerial blight (Rhizoctonia solani) | Terraguard SC | triflumizole | 3 | 2 - 8 fl oz/100 gal (1/4 - 1 tsp/gal) | 12 hours | For optimum disease control, applications should be made prior to or at the first sign of disease. |
| Black root rot (Thielaviopsis spp.) | | | | | | For root rots, apply soil drenches at 2 - 4 week intervals as needed. Use higher specified rate under heavy disease pressure. |
| Botrytis blight (Botrytis cinerea) | | | | | | |
| Cylindrocladium root rot and petiole rot (Cylindrocladium spathiphylli) | | | | | | |
| Cylindrocladium root rot, wilt and crown canker (Cylindrocladium scoparium) (Cylindrocladium theae) | | | | | | |
| Leaf spot (Alternaria spp.) (Exserohilum rostratum) (Helminthosporium rostratum) | | | | | | |
| Petiole rot (Myrothecium roridum) | | | | | | |
| Powdery mildew (Erysiphe cichoracearum) (Erysiphe lagerstromiae) (Oidium spp.) (Podosphaera spp.) (Sphaerotheca pannosa) | | | | | | |
| Rust (Puccinia spp., Gymnosporangium spp.) | | | | | | |
| Scab (Venturia spp.) | | | | | | |