

Fungicides, Bactericides, and Nematicides

Note: Not all chemicals listed are recommended or currently registered for use.
See listings for individual crops for recommended uses.

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|---|--------------------------------|------------------|--------------------|---|
| Abound | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. Severe phytotoxicity on apples with a McIntosh heritage. |
| Absolute | tebuconazole + trifloxystrobin | B, C, F, Ls, P | 3 + 11 | For rust and powdery mildew control in grasses grown for seed in the PNW. |
| Academy | fludioxonil + difenoconazole | B-N, F, P | 12 + 3 | Postharvest fungicide. |
| Accrue | spiroxamine | F, N, P | 5 | Discontinued. |
| Actigard, Blockade (Heritage Action) | acibenzolar-S-methyl | A | P1 | Labeled for certain vegetable crops and fruit. |
| Acquire | metalaxyl | Fs, N, P, S | 4 | For seed treatment to control oomycetes in specified row crops and vegetables. |
| Acrobat | dimethomorph | F, P | 40 | Discontinued. |
| Acrobat MZ | dimethomorph + mancozeb | F, P | 40 + M3 | Discontinued. |
| Acti-dione | cycloheximide | F | | Discontinued. Antibiotic and fungicide. |
| Actigard | acibenzolar-S-methyl | A | P1 | Labeled for certain vegetable crops and fire blight of fruit. |
| Actino-Iron | <i>Streptomyces lydicus</i> | F, P | BM02 | Discontinued. |
| Actinovate | <i>Streptomyces lydicus</i> | F | BM02 | Filamentous bacteria as a biological control agent. O |
| Adament | tebuconazole + trifloxystrobin | B, C, F, Ls, P | 3 + 11 | Discontinued. |
| Adorn | fluopicolide | F, N, P | 43 | Ornamental label for control of oomycetes. Must be tank-mixed with another fungicide. |
| Affiance | tetraconazole + azoxystrobin | B, F, C, Ls, P | 3 + 11 | Broad spectrum, premixed fungicide for cucurbits, fruiting vegetables, and field crops. |
| Affirm | Polyoxin D zinc salt | F | 19 | Discontinued. |
| Aframe | azoxystrobin | B-N, C, F, Ls, P | 11 | Another generic fungicide for many diseases. |
| Aframe Plus | azoxystrobin + propiconazole | B-N, C, F, Ls, P | 3 + 11 | Generic combination product for many diseases. |
| Agclor | sodium hypochlorite | B, Bact, E, F | | Used as postharvest dip. Many fruits and vegetables on label. |
| Agri-Fos | phosphorous acid | A, Fs, N, P, S | P7 | Discontinued. |
| Agri-Mycin | streptomycin | Bact, P | 25 | Antibiotic to control a number of commercially important bacterial plant pathogens including fire blight. |
| Agri-Strep | streptomycin | | | Discontinued name. |
| AgriPhage-Fireblight | | Bact | NC | Virus that is supposed to attack <i>Erwinia amylovora</i> . |
| AgriPhage-Nut & Stone Fruit Bacteriophage | | Bact | NC | Viruses that are supposed to attack <i>Xanthomonas</i> and <i>Pseudomonas</i> . |
| Alamo | propiconazole | B-N, C, F, Ls, P | 3 | Trunk injection for diseases such as Dutch elm disease. |
| Aldesan Microbiocide | formaldehyde | B, D, F | | Discontinued. |
| aldicarb | Temik | I, Nem, S | | Discontinued. |
| Aliette | aluminum tris | A, Fs, N, P, S | P7 | Used against oomycete fungal-like microorganisms; also some low bactericidal activity. Very acidic, so incompatible with copper products. |
| AllBan | thiophanate-methyl | B, F, P, S | 1 | Discontinued. |

** Not Classified H=Homeowner packaging commonly available O=Acceptable in organic production

*Action:

A = Activator of plant defense

Ar = Acaricide - substance poisonous to mites or ticks

B = Broad-spectrum activity

Bact = Bactericidal

B-N = Broad to narrow spectrum of activity

C = Curative

D = Disinfectant

E = Eradicant

F = Fungicidal

Fs = Fungistatic

Fum = Fumigant

I = Insecticidal

Ls = Locally systemic

N = Narrow-spectrum activity

Nem = Nematicide

P = Protection

S = Systemic

V = Vapor active

? = Unknown

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|----------------------|---|------------------|--------------------|---|
| Allegiance | metalaxyl | Fs, N, P, S | 4 | Seed treatment to control damping-off caused by oomycetes. |
| Allisan | (DCNA) dichloran | F, N, P | 14 | Discontinued. |
| allyl isothiocyanate | Dominus | B, F, Fum, Nem | ? | Broad spectrum pre-plant soil biofumigant for the control of certain soil borne fungi, nematodes, weeds, and insects in high-value crops. |
| Alto | cyproconazole | B, F, P | 3 | Broad-spectrum fungicide for cereals and soybean. |
| Alude | phosphorous acid | A, Fs, N, P, S | P7 | Discontinued |
| aluminum tris | Areca, Aliette | A, Fs, N, P, S | P7 | Useful for oomycetes and very acidic. |
| ametotradin | (Zampro, Orvego) | F, P | 45 | A new class of fungicides, the pyrimidylamines, with activity against oomycetes. |
| Amistar | azoxystrobin | B, F, Ls, P | 11 | Discontinued |
| Amplitude ST | <i>Bacillus amyloliquefaciens</i> strain F727 | F, P | BM02 | Broad spectrum biological for bulb vegetables, legumes, root, and row crops. O |
| AmyloShield | <i>Bacillus amyloliquefaciens</i> strain PTA-4838 | F, P | BM02 | Biocontrol labeled for use on ornamentals, fruits, vegetables, herbs, hemp, turfgrass, and other grasses. |
| Anchor | oxadixyl | Fs, N, S | | Discontinued. |
| anilazine | Dyrene | | | Voluntarily discontinued. |
| Apogee | prohexadione calcium | Growth regulator | | Labeled for Apple to slow down or minimize shoot growth and thus susceptibility to fire blight. |
| Appear | potassium phosphite | A, Fs, N, P, S | P7 | Label for oomycetes on turf and golf courses. |
| Approach | picoxystrobin | B, F, Ls, P | 11 | For control of a range of foliar pathogens in field and nut crops |
| Apron | metalaxyl | N, P, S | | Discontinued. |
| Apron XL | mefenoxam | Fs, P, S | 4 | The biologically active R-enantiomer of metalaxyl. |
| Aprovia | benzovindiflupyr (solatenol) | B-N, F, Ls, P | 7 | Fruit label for this third generation group 7 material. |
| Aprovia Top | difenoconazole + benzovindiflupyr | B, F, P | 7 + 3 | Broad-spectrum fungicide for fruit as well as certain vegetables and field crops. |
| AQ10 | <i>Ampelomyces quisqualis</i> | E, F | NC | Discontinued. |
| Arasan | thiram | | | Discontinued name. |
| Arbor-OTC | oxytetracycline | Bact, P | 41 | Antibiotic for injection into trees. |
| ArborFos | phosphorous acid | A, Fs, N, P, S | P7 | Tree injected material for use mostly against sudden oak death. |
| Arbotect | thiabendazole | B, C, F, Ls | 1 | Trunk injection for diseases such as Dutch elm disease. |
| Areca | aluminum tris | A, Fs, N, P, S | P7 | Generic label for ornamentals. |
| Arius | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Armada | triadimefon + trifloxystrobin | B-N, C, F, Ls, P | 3 + 11 | Combination for turf and ornamentals. |
| Armicarb | potassium bicarbonate | E, F | NC | Discontinued |
| Asperello | <i>Trichoderma asperellum</i> strain T34 | F, P | BM02 | Biofungicide for use in on a broad range of plants for many pathogens. |
| Aspire | <i>Candida oleophila</i> | P | NC | Discontinued. |
| Astun | isofetamid | F, P | 7 | For use on ornamentals grown in greenhouses and nurseries. Active on <i>Botrytis</i> and powdery mildews. |
| Auragreen | basic cupric carbonate | F | | Discontinued name. |
| Autilus | pentachloronitrobenzene (PCNB) | B, F, P | 14 | Discontinued. |
| Auxigro | gamma aminobutyric acidnd L-Glutamic acid | A | NC | No registrations |
| Avelyo | mefentrifluconazole | B-N, C, F, Ls, P | 3 | Ornamental label for flexible molecule that helps with cross-resistance management within this FRAC 3 group. |
| Aviv | <i>Bacillus subtilis</i> strain IAB/BS03 | A, B-N, F | BM02 | Biological. O |

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|---------------------------------------|---|------------------|--------------------|--|
| Axios | ipflufenquin | F | 52 | Pome fruit and almond label to start. |
| azadirachtin | Ecozin | Nem | NC | Botanical insecticide. Interferes with juvenile growth and repels adult nematodes and a wide range of insects. |
| A-Zox | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Azoxystar | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| azoxystrobin | Abound, Heritage, Quadris Amistar, Dynasty (Affiance, QuiltXcel, Ridomil Gold, Quadris Top, Uniform, Topguard EQ) | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. Severe phototoxicity on apples with a McIntosh heritage. |
| Azoxyzone | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Azteroid | azoxystrobin | B, F, LS, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Bac-Master | streptomycin | Bact, P | 25 | Discontinued name. |
| Bacilirid | <i>Bacillus amyloliquefaciens</i> strain MBI 600 | F, P | 44 | Biological fungicide |
| Bacteriophage | AgriPhage products | Bact | NC | Viruses that are supposed to attack <i>Xanthomonas</i> and <i>Pseudomonas</i> diseases as well as fire blight. |
| Badge | copper oxychloride + copper hydroxide | B, Bact, F | M1 | Registered on many crops. |
| Ballad Plus | <i>Bacillus pumilus</i> strain QST 2808 | Bact, F, P | BM02 | Broad-spectrum biocontrol formulation for vegetable and field crops. O |
| Banner MAXX | propiconazole | B-N, C, F, Ls, P | 3 | Ornamental label. |
| Banol | propamocarb | F, N | 28 | Ornamental fungicide for use against oomycetes. |
| Banrot | etrizidazole + thiophanate-methyl | B-N, F, P | 14 & 1 | Controls many soilborne fungal diseases. |
| Basamid | dazomet | F, Fum, Nem, V | | Restricted use. Soil fumigant. Reacts with water to form fumigant. |
| Bayer Advanced Disease Control | tebuconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Bayer Advanced Natria Disease Control | <i>Bacillus subtilis</i> strain QST 713 | F, P | BM02 | Discontinued. |
| Bayleton | triadimefon | B-N, C, F, Ls, P | 3 | Discontinued. |
| Baytan | triadimenol | F, S | 3 | Discontinued. |
| Benefit | iprodione + thiophanate-methyl | B, F, P, S | | Discontinued. |
| Benlate | benomyl | B, C, F, Ls | 1 | Discontinued. was a popular benzimidazole with wide activity but narrow mode of action against fungal beta tublin gene. Result: wide-spread, stable populations of resistant fungi. Ornamental uses pulled in the mid-1990s. Not manufactured after 2001. |
| benomyl | Benlate, Tersan 1991 | B, C, F, Ls | 1 | Discontinued. Controlled a wide range of fungal diseases. Resistance wide-spread and stable. |
| benzovindiflupyr (solatenol) | Aprovia (Aprovia Top, Elatus, Mural) | B, F, P | 7 | A fungicide belonging to the SDH-inhibitor group with an effect on a broad range of fungi. |
| Bexfond | <i>Bacillus amyloliquefaciens</i> subspecies <i>plantarum</i> strain FZB42 | F, P | BM02 | Biocontrol labeled for a range of crops. O |
| Bi-Carb Old Fashioned Fungicide | potassium bicarbonate | E, F | NC | Discontinued. |
| BioAdvanced Disease Control | tebuconazole | B-N, C, F, Ls, P | 3 | Home label that was named Bayer Advanced. |
| BioAdvanced Fungus Control for Lawns | propiconazole | B-N, C, F, Ls, P | 3 | Home label for RTU product |
| BioSpectra | natamycin | B, P, F | 48 | Fermentation product of <i>Streptomyces</i> spp. Active against fungi but nontoxic to humans. Unstable in UV light. |
| Bio-Save | <i>Pseudomonas syringae</i> | P | BM02 | Bio-Save 11 LP is Discontinued. Bio-Save 10 LP is labeled for potato and tree fruits. |
| Bio-Tam | <i>Trichoderma asperellum</i> + <i>T. gamsii</i> | F, P | BM02 | For control of soilborne pathogens in various fruits, nuts, vegetables, and field crops. O |

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|--------------------------------|--|------------------|--------------------|--|
| Bio-Trek | <i>Trichoderma harzianum</i> | F, P | NC | Discontinued name, see RootShield. |
| BLAD | Fracture, Problad, Regime | F | BM01 | A naturally occurring seed storage protein in sweet lupines. Effective on brown rot but not so much on powdery mildew. |
| BlightBan | <i>Pseudomonas fluorescens</i> | P | BM02 | Discontinued. |
| B-Lock | boric acid | P | NC | Paint for protection of pruning wounds. |
| Blockade | acibenzolar-S-methyl | A | P1 | Control of downy mildew in leafy vegetables. |
| Blocker 4F | pentachloronitrobenzene (PCNB) | F, P | 14 | Registered for soilborne diseases of vegetable and field crops. |
| Bloomtime | <i>Pantoea agglomerans</i> strain E325 | P | NC | Discontinued. |
| Blossom Protect | <i>Aureobasidium pullulans</i> | F, P | NC | Biological for fire blight management. O |
| Bonafide | boscalid | F, P | 7 | Generic focused on <i>Botrytis</i> but has activity on several other diseases if resistance has not developed. |
| Bonide Copper Fungicide | basic copper sulfate | B, Bact, F | M1 | Home product. |
| Bonide Revitalize Biofungicide | <i>Bacillus amyloliquefaciens</i> strain D747 | A, F, P, | BM02 | Discontinued name. |
| borax | Prev-Am, Sporax | P | NC | Best use is as a wound treatment for a few fungi. Individual labels differ widely. |
| bordeaux | copper sulfate + hydrated lime | B, Bact, F, P | M1 | Still an excellent dormant-season fungicide for the Willamette Valley of Oregon because it is rain-fast when sprayed on plants. Difficult to mix and apply compared to modern fungicides. |
| boscalid | Endura, (Pristine, Honor, Pagent) Emerald | F, P | 7 | For control of potato and tomato early blight and <i>Sclerotinia</i> , <i>Alternaria</i> , <i>Monilinia</i> and <i>Botrytis</i> . Also has activity on powdery mildew. |
| Botector | <i>Aureobasidium pullans</i> strains DSM 14940 and 14941 | F, N, P | NC | Yeast that protects blossoms from <i>Botrytis</i> and brown rot pathogens. Variable efficacy so far. O |
| Botran | (DCNA) dichloran | F, P | 14 | Labeled for use during the growing season on several crops. Active against <i>Mucor</i> , <i>Rizopus</i> , and <i>Penicillium</i> . |
| BotryStop | <i>Urocladium oudemansii</i> U3 strain | F, N, P | NC | Biofungicide for use on many crops against <i>Botrytis</i> diseases. |
| Bravo | chlorothalonil | B, F, P | M5 | Good protectant fungicide with long residual activity. Rain can redistribute to some extent. |
| Bravo CM | chlorothalonil + copper + maneb | B, Bact, F, P | | Discontinued. |
| Break | propiconazole | B-N, C, F, Ls, P | 3 | Similar label to Tilt but for California only . |
| Briskway | azoxystrobin + difenconazole | B, C, F, Ls, P | 3 + 11 | Combination fungicide for use on turfgrass. |
| Broadform | fluopyram + trifloxystrobin | B, F Ls, P | 7 + 11 | Ornamental label for nurseries, greenhouse and landscapes. |
| Bumper | propiconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Burrows E Wrap | ethoxyquin | N, P | -- | Discontinued. |
| Cabrio | pyraclostrobin | B, F, Ls, P | 11 | Next generation strobilurin after Sovran. Better activity on numerous diseases. |
| Cadera | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Calirus | phosphorous acid | A, Fs, N, P, S | P7 | Discontinued. |
| Camelot O | copper octanoate (soap) | Bact, F | M1 | Ornamental label. |
| Cannonball | fludioxonil | F, N, P | 12 | Active against <i>Botrytis</i> and <i>Sclerotinia</i> diseases. For ginseng, melons and vegetables. |
| captafol | Difolatan | | | Discontinued. |
| captan | Captan, (CaptEvate) | B, F, P | M4 | Controls a wide variety of fungal diseases. Seed treatment by slurry; dry treatment; and plant-box application. Compatible with most commonly used insecticides and fungicides but cannot be used with strong alkalines or oil sprays. |
| CaptEvate | Captan + fenhexamid | B, F, P | M4 + 17 | Discontinued.. |
| Carbamate | ferbam | B, F, P | | Discontinued name. |

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|----------------------|--|----------------------|--------------------|---|
| carbofuran | Furadan | B, I, Nem | | Restricted-use pesticide breaks down rapidly with certain soil microbial populations. |
| Carboject | oxycarboxin | F, Ls, N | | Discontinued. Used for tree injection. |
| carbon bisulfide | carbon disulfide | F, Fum, I, V | | One of the most widely used fumigants for insects in stored grain, usually in combination with carbon tetrachloride to reduce fire hazard. Also a soil fumigant to control soil fungi and deep-rooted perennial weeds. |
| carboxin | Vitavax | F, S | 7 | Seed treatment. Controls smuts and <i>Rhizoctonia solani</i> . |
| Cavalier | thiophanate-methyl | B, F, P, S | 1 | Discontinued. |
| Cease | <i>Bacillus subtilis</i> strain QST 713 | F, P | BM02 | Biological for several crops. O |
| Cela W524 | triforine | B-N, C, F, P, S | | Discontinued. Old experimental code name. |
| Cellu-Treat | disodium octaborate tetrahydrate | P | ? | Wood preservative that can be used for protection of stumps from Heterobasidion Root Disease. |
| cerevisane | Romeo | A, P | NC | Cell walls of <i>Saccharomyces cerevisiae</i> strain LAS 117 (Brewer's yeast) that stimulates host defense mechanisms. O |
| Cevya | mefentrifluconazole | B-N, C, F, Ls, P | 3 | Flexible molecule that helps with cross-resistance management within this FRAC 3 group. Labeled for various tree fruit, small fruit, and vegetable crops. |
| Champion++ | copper hydroxide | B, Bact, F, P | M1 | Organic formulation. O |
| Charter | triticonazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Chipco 26019 | iprodione | F, Ls, N, P | 2 | Ornamental label for material against such fungi as <i>Botrytis</i> and <i>Monilinia</i> . Resistance is likely with increasing number of applications. |
| chitosan | Warhammer | A, B | NC | A chitosan formulation that is an activator of host defense responses in plants. May be applied to all crops and has no preharvest interval or reentry interval requirements. |
| chlorfenapyr | Pylon | I, Nem | | An ornamental miticide with activity against foliar nematodes. |
| chloroneb | Anderson's Golf Product Fungicide | F | 14 | Supplemental seed treatment, or in-furrow soil treatment at planting time, for systemic control of seedling diseases. Controls snow mold (<i>Typhula</i>), Pythium blight, brown patch, Sclerotium rot. |
| Chlor-O-Pic | chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| chloropicrin | Chlor-o-Pic Metapicrin Timber Fume Tri-Clor | Bact, F, Fum, I, Nem | | Restricted use. Soil fumigant to control nematodes, bacteria, fungi, insects, and weeds. Also a warning agent in odorless fumigants such as methyl bromide (Terr-o-Gas) and sulfuryl fluoride. Active chemical in tear gas. |
| chlorothalonil | Bravo, Echo, Ensign, Daconil 2787 (Concert, Orondis Opti) many others. | B, F, P | M5 | Good protectant fungicide. Controls many diseases on many crops. |
| Cinnacure | cinnamaldehyde | N, E | | Discontinued. |
| cinnamaldehyde | Cinnacure | N, E | | Labeled for several insects, mites and powdery mildew. Very short residual so use only as disinfectant. |
| Cinnamite | cinnamaldehyde | N, E | | Discontinued name. |
| Cinnerate | Cinnamon Oil | E, F, I, N | NC | Botanic oil active on powdery mildews. Labeled for a variety of diseases, mites and crops. O |
| Civitas Turf Defense | horticultural mineral oil | E, F, I, P | NC | Label for turf on golf courses, sports and athletic fields. |
| Clandosan | chitin, urea, and minerals | N | | Discontinued. |
| Cleary's 3336 | thiophanate-methyl | B, F, P, S | 1 | Ornamental label. The plant converts thiophanate-methyl to carbendazim, the active fungicidal compound. Spectrum of activity is not as great as Benlate's. |
| Clevis | mancozeb + myclobutanil | B, C, F, Ls, P | M3 + 3 | Discontinued. |
| C-O-C-S | copper oxychloride | B, Bact, F | M1 | Activity is similar to other coppers. |
| Companion | <i>Bacillus subtilis</i> GB03 | F, P | BM02 | Control of <i>Rhizoctonia</i> , <i>Pythium</i> , <i>Fusarium</i> , and <i>Phytophthora</i> diseases. O |
| Compass | trifloxystrobin | B, F, Ls, P | 11 | Ornamental label for a strobilurin compound effective against many fungi. |

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|------------------------------|--|------------------|--------------------|---|
| Concert | propiconazole + chlorothalonil | B, C, F, Ls, P | 3 + M5 | Combination for turf and ornamentals. |
| Concorde | chlorothalonil | B, F, P | M5 | Discontinued name. |
| Consyst | chlorothalonil + thiophanate-methyl | B, F, P | M5 + 1 | Discontinued. |
| Contans | <i>Coniothyrium minitans</i> | E | NC | Biological for destruction of sclerotia of <i>Sclerotinia</i> spp. O |
| Contend A | benzovindiflupyr + difenconazole | B, F, Ls, P | 3 + 7 | Label for snow mold on golf course turfgrass only. |
| Contend B | azoxystrobin + propiconazole | B-N, C, F, Ls, P | 3 + 11 | Label for snow mold on golf course turfgrass only. |
| Contrast | flutolanil | F, S, N | 7 | Discontinued. |
| Copper-Count-N | copper ammonium complex | Bact, F | M1 | Discontinued. |
| coppers: | | | M1 for all | |
| bordeaux | copper sulfate + hydrated lime | B, Bact, F, P | | Still an important and effective dormant-season product (mixture) in rainy areas. Difficult to make and apply with conventional equipment. O |
| copper ammonium complex | Copper Count-N, Ko-R-Spray | B, Bact, F | | Similar to other copper products.O |
| copper sulfate | basic copper sulfate, cuprofix disperss | B, Bact, F | | Controls many diseases. Used in dormant season with oil. O |
| copper hydroxide | Champ, Kocide, Nu-Cop, CuPRO, Kalmor, Kentan, Previsto | B, Bact, F | | Controls many diseases. Used in dormant season with oil. Next-best copper after bordeaux for efficacy and rainfastness, and much easier to apply. O |
| copper octanoate | Cueva, and others | B, Bact, F | | Many organic uses. O |
| copper oxychloride | C-O-C-S | B, Bact, F | | Activity similar to other coppers. |
| copper oxides | Nordox | B, Bact, F | | Activity similar to other coppers. O |
| Coronet | pyraclostrobin + boscalid | B, F, Ls, P | 11 + 7 | Broad-spectrum fungicide combination labeled for seed treatment of various vegetable and field crops. |
| Cosavet | sulfur | F, I, P, V | M2 | Discontinued name. |
| Crescendo | <i>Chromobacterium subsugae</i> strain PRAA4-1 | I, N | BM02 | Biological insecticide with nematicide properties for ornamentals, tree fruit, and nut crops. |
| Cruiser Extreme | thiamethoxam + fludioxonil + mefenoxam + azoxystrobin | B, F, Ls, P | 4A + 12 + 4 + 11 | Discontinued. |
| Cruiser Maxx Potato | thiamethoxam + fludioxonil | F, N, P | 4A + 12 + 4 + 11 | Seed treatment product for protection against certain insects, seedborne diseases, and seedling diseases of potato. |
| Cruiser Maxx Vibrance Potato | thiamethoxam + fludioxonil + difenconazole + sedaxane | B, C, F, Ls, P | 4A + 3 + 12 + 7 | Seed treatment product for protection against certain insects, seedborne diseases, and seedling diseases of potato. |
| Cruiser Maxx Potato Extreme | thiamethoxam + fludioxonil + difenconazole | B, C, F, Ls, P | 4A + 3 + 12 | Seed treatment product for protection against certain insects, seedborne diseases, and seedling diseases of potato. |
| CS 2005 | copper sulfate | B, Bact, F | M1 | Similar to other copper-based pesticides. |
| Cueva | copper octanoate (soap) | B, P, Bact, F | M1 | Many organic uses. O |
| CuPRO | copper hydroxide | B, Bact, F | M1 | Similar to other copper products. |
| Cuprofix Disperss | basic copper sulfate | B, Bact, P | M1 | Fixed copper labeled for many crops. |
| Curalan | vinclozolin | B-N, F, Ls, P | 2 | Discontinued. |
| Curzate | cymoxanil | F, Ls | 27 | Labeled for control of potato and tomato late blight; hop downy mildew. |
| cyazofamid | Ranman, Segway | N, F, Ls, P | 21 | Activity against oomycete fungal-like organisms. |
| cycloheximide | Acti-dione | F | | Discontinued. |
| cyflufenamid | Torino, fastback | F, P | U6 | For powdery mildew on a few fruit, hop, and vegetable crops. |
| Cygnus | kresoxim-methyl | B, F, Ls, P | 11 | Discontinued. |
| cymoxanil | Curzate, (Tanos) | F, Ls | 27 | Late blight of potato and tomato, downy mildew of hops. |
| Cyprex | dodine | U12 | | Discontinued name. See also Syllit. |
| cyproconazole | Alto | B-N, F, Ls | 3 | Broad spectrum fungicide for cereals and soybeans. |
| cyprodinil | Vanguard, (Switch, Palladium) | C, Fs, Ls, N, P | 9 | Good activity on <i>Botrytis</i> and <i>Monilinia</i> . Fair on apple scab. Resistance is a problem if overused. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|--|----------------------|--------------------|---|
| Daconil | chlorothalonil | B, F, P | M5 | Ornamental label. Good protectant fungicide with long residual activity. Rain can redistribute to some extent. |
| Dart | Capric and Caprylic Acid | F, P | NC | Variety of crops and early formulations were phytotoxic. |
| Dasanit | fensulfothion | I, Nem | | Discontinued. |
| dazomet | Basamid | F, Fum, I, Nem | | Restricted use. For soil fungi, nematodes, germinating weeds, soil insects. Antimicrobial in slimicide preparations. |
| DCNA | dicloran | B, F, P | 14 | Discontinued. |
| Decco I-182 | <i>Candida oleophila</i> | F, N, P | | Discontinued name. |
| Decco Salt 19 | thiabendazole | F, P, S | 1 | Postharvest fungicide for apples, pears, carrots, and potatoes |
| Deccosol | SOPP | F | | Discontinued name. |
| Decree | fenhexamid | F, N, P | 17 | Labeled for use against <i>Botrytis</i> for ornamental and certain greenhouse vegetables/transplants. |
| Defend | pentachloronitrobenzene (PCNB) | B, F, P | 14 | Discontinued. |
| Defiant | thiram | B, F, P | M3 | Discontinued. |
| Densicor | prothioconazole | NC | 3 | Turf label. |
| Deny | <i>Burkholderia cepacia</i> | F, N, P | | Discontinued. |
| Dexter Max | mancozeb + azoxystrobin | B, F, P | M3 + 11 | Broad-spectrum fungicide for vegetables, fruit, and cereals. Toxic to some apples. |
| Dexter SC | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. Severe phytotoxicity on apples with a McIntosh heritage. |
| Dexter Xcel | mancozeb + azoxystrobin + tebuconazole | B, F, P | M3 + 11 + 3 | Discontinued. |
| dichlone | Dichlone Seed Protectant, Phygon | | | Discontinued. |
| dichloropropene | Telone II | B, E, Fum, Nem | | Preplant for nematode, disease, insect, and weed control on a variety of crops. Harmful to crop plants and applied only as preplant to control nematodes. Do not apply in glasshouses containing plants. Apply year-round if soil conditions are suitable. Immediately seal soil surface by lightly compacting with roller or water. Do not plant any crop while any odor remains in soil. If in doubt, aerate soil by cultivating a few days before planting or sowing Restricted use. |
| dicloran | DCNA, Botran | B, F, P | 14 | Active against <i>Botrytis</i> , <i>Monilinia</i> , <i>Rhizopus</i> (best on), <i>Sclerotinia</i> , and <i>Sclerotium</i> . |
| difenoconazole | Dividend, Inspire, (Quadris Top, Academy, Miravis Duo, Postiva) | B-N, C, F, Ls, P | 3 | Controls a broad range of fungal pathogens on many crops. |
| Difolatan | captafol | | | Discontinued. |
| Dikar | mancozeb + dinocap | | | Discontinued. |
| dimethomorph | Acrobat, Forum, Stature, (Orvego, Zampro) | F, P | 40 | Active against oomycetes like late blight of potato. But not <i>Pythium!</i> |
| dimethy disulfide | Paladin | B, E, F, Fum, I, Nem | | Discontinued. |
| dinocap | Karathane, Crotothane | F, I | | Discontinued. |
| Disarm | fluoxastrobin | B, F, Ls, P | 11 | Turf label for this fungicide. |
| Distinguish | pyrimethani l + trifloxystrobin | B, F, Ls, P | 9 + 11 | Discontinued. |
| DiTera | <i>Myrothecium verrucaria</i> strain AARC-0255, fermentation solids and solubles | N | NC | Biocontrol formulation for nematode control in many crops. O |
| Dithane M22 | maneb | B, F, P | | Discontinued. No longer manufactured. |
| Dithane | mancozeb | B, F, P | M3 | Excellent protective fungicide for many diseases on many crops. Field crop label. |
| Divanem | abamectin | N | | Restricted use nematicide. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|---|------------------|--------------------|---|
| Dividend | difenoconazole | B-N, C, F, P, S | 3 | Labeled as a seed treatment. Now comes packaged with Apron XL. |
| Dividend Extreme | difenoconazole + mefenoxam | B, C, F, P, S | 3 + 4 | Effective against various soilborne diseases in wheat, triticale, and barley. |
| Dividend XL RTA | difenoconazole + mefenoxam | B, C, F, P, S | 3 + 4 | Effective against various soilborne diseases in wheat. |
| Docket | chlorothalonil | B, F, P | M5 | Discontinued name. |
| Dodine | dodine | B, F, P | U12 | Good for apple scab (if resistance is not a problem) leaf spot, and a few bacterial diseases. Bacterial activity low. |
| Domain | thiophanate-methyl | B, F, P, S | | Discontinued name. |
| Dominus | allyl isothiocyanate | B, F, Fum, Nem | ? | Broad spectrum pre-plant soil biofumigant for the control of certain soil borne fungi, nematodes, weeds, and insects in high-value crops. |
| Double Nickel | <i>Bacillus amyloliquefaciens</i> strain D747 | F, P | BM02 | Biological registered for many diseases. O |
| Du-Ter | triphenyltin hydroxide | | | Discontinued name. See Super Tin |
| Duosan | thiophanate-methyl + mancozeb | B, F, P, S | | Discontinued. |
| Dynasty | azoxystrobin | B, F, P, S | 11 | Seed treatment for control of seed and seedborne disease of barley, corn, wheat, and legume vegetables. |
| Dyrene | wanilazine | | | Discontinued. |
| eFog | fludioxonil | F, N, P | 12 | Use postharvest on pome fruit by thermal fogging. |
| Eagle | myclobutanil | B-N, C, F, Ls, P | 3 | Labeled for landscape diseases. |
| Echo | chlorothalonil | B, F, P | M5 | Good protectant fungicide that controls many diseases. |
| EcoSwing | Extract of <i>Swinglea glutinosa</i> | BM01 | | Labeled for many crops. O |
| Ecozin | azadirachtin | Nem | | Botanical insecticide. Interferes with juvenile growth and repellent of adult nematodes. |
| Elatus | azoxystrobin + benzovindiflupyr | B, F, P | 11 + 7 | Broad-spectrum fungicide for corn, canola, and potatoes. |
| Elevate | fenhexamid | F, N, P | 17 | Food use label for use against <i>Botrytis</i> . |
| Elite | tebuconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Elumin | ethaboxam | C, Ls, N, P, S | 22 | For oomycete-caused diseases in vegetables. |
| Emblem | fludioxonil | F, N, P | 12 | Discontinued. |
| Emerald | boscalid | F, P | 7 | Labeled for turfgrass disease control. |
| Employ | harpin | A | ? | SAR protein from a bacterium. Registered for many crops. |
| Empress | pyraclostrobin | B, F, Ls, P | 11 | Strobilurin used on many crops but this label for drenching ornamentals. |
| Encartis | boscalid + chlorothalonil | B, F, P | 7 + M5 | Label for golf course turfgrass. |
| Endorse | polyoxin D | F | 19 | Discontinued. |
| Endura | boscalid | F, P | 7 | For control of potato and tomato early blight and <i>Sclerotinia</i> , <i>Alternaria</i> , <i>Monilinia</i> and <i>Botrytis</i> . |
| Ensign | chlorothalonil | B, F, P | M5 | Discontinued. |
| Enzone | tetrathiocarbonate | B, Fum, Nem, V | | Discontinued. |
| Epic 30 | iprodione | B-N, F, Ls, P | 2 | Discontinued. |
| Equus | chlorothalonil | B, F, P | M5 | Good protectant fungicide. Controls many diseases on many crops. |
| E-Rase | Jojoba oil | E, F | NC | Discontinued. |
| ethaboxam | Intego | C, Ls, N, P, S | 22 | For oomycete-caused diseases in vegetables and field crops. |
| ethoprop | Mocap | B, E, I, Nem | | Action by contact; must be mixed with soil or carried by water into soil. |
| ethoxyquin | Pear Wrap III | N, P | -- | Paper wrapped around pear fruit to prevent scald. |
| Ethylene dibromide | Dowfume | Fum, I, Nem | | Discontinued. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|---|-------------------|--------------------|--|
| etridiazole | Terrazole, Truban, (Banrot) | F, N | 14 | Soil-drench ornamental fungicides. Control <i>Pythium</i> and <i>Phytophthora</i> . Sensitive to UV irradiation. |
| Evito | fluoxastrobin | B, F, Ls, P | 11 | For field crops and certain vegetables for a range of plant diseases. |
| Evolve | thiophanate-methyl + mancozeb + cymoxanil | F, P, S | 1 + 27 + M3 | Potato seed piece treatment for suppression of Fusarium, dry rot, black scurf (<i>Rhizoctonia</i> sp.), silver scurf (<i>Helminthosporium</i> sp.), and spread of <i>Phytophthora infestans</i> between seed-pieces. |
| Excalia | inpyrflumax (Indiflin) | F, P | 7 | A few fruit and field crops to start. |
| Exotherm Termil | chlorothalonil | B, F, P | M5 | Discontinued. |
| Exteris Stressgard | fluopyram + trifloxystrobin | B-N, E, Ls, P | 7 + 11 | Turfgrass label. |
| Fame | fluoxastrobin | B, F, Ls, P | 11 | Ornamental label. |
| famoxadone | (Tanos) | F, Ls | 11 | Labeled for hop and grape downy mildew, some foliar diseases of cucurbits. |
| Farmsaver | streptomycin | Bact, P | 25 | Discontinued. |
| Fastback | cyflufenamid | F, P | U6 | Same product as Torino. |
| fenamidone | Reason, Fenstop | F, P | 11 | Effective against certain foliar diseases in vegetable crops. Also labeled for oomycetes on ornamentals. |
| fenaminosulf | Lesan | F | | Discontinued. |
| fenamiphos | Nemacur | C, Nem, S | | Discontinued. |
| fenarimol | Focus, Vintage | B-N, C, F, Ls | 3 | Discontinued. |
| fenazaquin | Magister, Magus | Ar, I, P | 39 | An acaricide with activity on powdery mildew. Bees are very sensitive. |
| fenbuconazole | Indar, Enable | B-N, C, F, Ls, P | 3 | Fruit label. Excellent against brown rot. |
| fenhexamid | Decree, Elevate, Judge | F, N, P | 17 | For use against <i>Botrytis</i> . |
| fenpyrazamine | Protexio | F, N, P | 17 | For use against <i>Botrytis</i> and related fungi. Is not recommended on fruit crops due to bad garlic smell when used. |
| Fenstop | fenamidone | F, N, P | 11 | Labeled for oomycetes on ornamentals. |
| fensulfothion | Dasanit | I, Nem | | Discontinued. |
| ferbam | Ferbam Granuflo | B, F, P | M3 | Discontinued. |
| Ferbam Granuflo | ferbam | B, F, P | M3 | Discontinued. |
| ferrous sulfate | MossMax, Moss out, Moss Terminator | C, N | NC | Kills moss on contact but can stain cement drive ways and sidewalks. |
| Fiata | phosphorous acid | A, Fs, N, P, S | P7 | Turf label for a material with activity on oomycetes. |
| Fire line | oxytetracycline | Bact, P | 41 | Antibiotic for fire blight on pear. |
| Fire wall | streptomycin | Bact, P | 25 | Discontinued. |
| FirstStep | potassium bicarbonate | E, F | | Discontinued name. |
| Fitness | propiconazole | B-N, C, F, Ls, P | 3 | Another generic of a popular fungicide. |
| FlameOut | oxytetracycline | Bact, P | 41 | Discontinued name. |
| Flanker | fosetyl-AL | A, Bact, Fs, P, S | P7 | Discontinued name. |
| Flint | trifloxystrobin | B, F, Ls, P | 11 | A strobilurin compound for several crops. Phytotoxic to Concord grapes. |
| Flo-Pro IMZ | imazalil | F, P, S | | Discontinued. |
| Folpan | folpet | F | M4 | Labeled for hop downy mildew. |
| Floxcor | fluoxastrobin | B, F, Ls, P | 11 | Turf label for this fungicide. |
| fluazaindolizine | Salibro | Nem | N-UN | A novel, non-fumigant chemical nematicide for cucurbits, fruiting vegetables, carrots, potatoes, tree nuts, sweet potatoes, and other crops. May be applied using drip or micro-sprinkler irrigation, drench or soil spray followed by irrigation. |
| fluazinam | Omega, Secure | B, F, P | 29 | Has a rather broad spectrum of activity. Labeled for use on potato for <i>Phytophthora</i> and <i>Sclerotinia</i> diseases, and Apple scab. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------------|--|-------------------|--------------------|---|
| fludioxonil | Emblem, Maxim, Medallion, Scholar, Cannonball, Spirato, (Switch, Pal-ladium) | F, N, P | 12 | A seed treatment, postharvest and ornamental fungicide. Degraded by exposure to direct sunlight. |
| fluensulfone | Nimitz | Nem | --- | Nematicide for use on vegetables and strawberries. |
| fluopicolide | Presidio, Adorn (Stellar) | F, N, P | 43 | Active against selective oomycetes. Prone to resistance problems so must be tank-mixed. |
| fluopyram | Luna Privilege, Indemnify, Velum Prime (Luna Experience, Luna Sensation, Luna Tranquility) | F, P, Nem | 7 | Vegetables and tree crop foliar and fruit disease management. Some nemacidal activity too. |
| fluoxastrobin | Evito, Disarm, Aftershock, Fame | B, F, Ls, P | 11 | Effective against a large number of fungi including early and late blight of potato. |
| flutianil | Gatten | F, N | U13 | Active on powdery mildews on many crops. |
| flutolanil | ProStar, Contrast, Moncut | F, S | 7 | Used to control turf and ornamental diseases caused by basidiomycetes. Sensitive to light. |
| flutriafol | Topguard, Rhyme, Rayora (Topguard EQ) | B-N, C, F, Ls, P | 3 | Label for field crops and nuts. Highly mobile in plant tissues with transpiration stream. |
| fluxapyroxad | (Merivon, Obvius) Orkestra, Xzemplar | B, F, P, C | 7 | Broad-spectrum fungicide used as a seed treatment or for foliar diseases. |
| Focus | fenarimol | B-N, C, F, Ls | 3 | Discontinued name. |
| Folcid | captafol | | | Discontinued name. |
| Folicur | tebuconazole | B-N, C, F, Ls, P | 3 | Discontinued name. |
| folpet | Folpan | F | M4 | Labeled for hop downy mildew. |
| Fontelis | penthiopyrad | B, F, P | 7 | Use on fruits and vegetables for management of many leaf spots, powdery mildew and fruit rots. |
| Fore | mancozeb | B, F, P | M3 | Ornamental label lists a broad array of diseases and crops. Has a green pigment for turf use. |
| formaldehyde | Aldesan Microbiocide | B, D, F | | Fungicide, germicide, soil sterilant, and formerly seed treatment. Used on ornamental bulb crops for nematode and <i>Sclerotium</i> management. |
| Formalin | formaldehyde | F | | Discontinued. |
| Forum | dimethomorph | F, P | 40 | Active against downy mildew of cucurbits, garlic, onion, lettuce, and hops as well as late blight of potato and tomato. |
| fosetyl-Al (aluminum tris) | Aliette, Signature | A, Bact, Fs, P, S | P7 | Preventive and curative activity against many oomycetes. A low level of bactericidal activity that has been variable. |
| Fosphite | phosphorous acid | A, Fs, N, P, S | P7 | Activity against oomycete fungal-like organisms. O |
| Fracture | BLAD | F | BM01 | A naturally occurring seed storage protein in sweet lupines. Registered on tomato and some fruit crops. Effective on brown rot but not so much on powdery mildew. |
| Fungaflor | imazalil | F, S | 3 | Discontinued. |
| Funginex | triforine | B-N, E, Ls, P | 3 | Discontinued. |
| Fungi-Phite | phosphorous acid | A, Fs, N, P, S | P7 | Useful for oomycetes. |
| Fungisei | <i>Bacillus subtilis</i> strain IAB/BS03 | A, B-N, F | BM02 | Biocontrol labeled for a range of crops. H O |
| Fungisol | deba carb + carbendazim | B, C, F, Ls | ? + 1 | Used for tree injection against a number of diseases. |
| Fungo | thiophanate-methyl | B, F, P, S | | Discontinued name. |
| Fung-onil (bonide) | chlorothalonil | B, F, P | M5 | Home label for good fungicide. |
| FungOut | citric acid | Bact, F | NC | Labeled for a variety of crops. Active ingredient useful for improved antibiotic activity against fire blight. O |
| Furadan | carbofuran | B, I, Nem | | Discontinued. |
| Gallex | xyle nol + cresol | E | | A paint on very young crown galls to prevent further development. May need to reapply frequently, and may not work if applied too late. |
| Galltrol | <i>Agrobacterium radiobacter</i> | Bact, P | NC | Biological for the prevention of crown gall. O |
| Gatten | flutianil | F, N | U13 | Active on powdery mildews on many crops. |
| Gavel | mancozeb + zoxamide | B, F, P | M3 + 22 | Broad-spectrum fungicide for control of potato late and early blights. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|--|---|------------------|--------------------|---|
| Gem | trifloxystrobin | B, F, Ls, P | 11 | Effective against many fungi. May become a discontinued name. |
| Geraniol | Zayin | B, F, I | | Primary component of citronella oil and is labeled for several diseases |
| gibberellic acid | ProGibb | Growth regulator | NC | Plant hormone used to change growth of plants for aesthetic and disease control reasons (grapes). |
| Grotto | copper octanoate (copper soap) | B, Bact, F | M1 | Ornamentals and turf label. O |
| Guarda | Thyme oil | B-N, F, I. | BM01 | The essential oils can be used for several pest issues. |
| Halt | thiophanate-methyl | B, F, P, S | 1 | Discontinued. |
| Harbour | streptomycin | Bact, P | 25 | Antibiotic for fire blight management. |
| harpin | Messenger, Employ, ProAct | A | | Protein from a bacterium that stimulates host defense mechanisms. Also purported to enhance plant growth. O |
| Headline | pyraclostrobin | B, F, Ls, P | 11 | Next generation strobilurin after Sovran. Better activity on numerous diseases. |
| Heads Up | saponins | A | NC | Botanical extract from <i>Chenopodium quinoa</i> for field crops and tomato. O |
| Headway | azoxystrobin + propiconazole | B-N, C, F, Ls, P | 3 + 11 | Turf label. |
| Helix Vibrance | difenoconazole + mefenoxam + fludioxonil + sedaxane | B, C, F, P, S | 3 + 4 + 12 + 7 | Broad-spectrum fungicide combination plus an insecticide labeled for seed treatment of canola. |
| Heritage | azoxystrobin | B, F, Ls, P | 11 | Labeled for turf and ornamentals, transplants of fruit and nut trees, and vegetable and herb plants. Very effective, active against a very large number of fungi. |
| Heritage Action | azoxystrobin + acibenzolar | A, B, F, Ls, P | 11 + P1 | Turf formulation with a fungicide and the plant activator Actigard. |
| hexachlorobenzene | Anticarie, Sanocide Seed Protectant, Hexachloro benzene 40, No Bunt 40, Smut Go | | | Most are discontinued. Seed protectant. For common bunt and smut. |
| HMO (Horticultural Mineral Oil) | Civitas, JMS Stylet Oil, Neem Oil | E, F, I, P | NC | Oils are good for powdery mildew eradication. Don't mix with sulfur. Synthetic oils better than botanical oils. |
| Hoist | myclobutanil | B-N, C, F, Ls, P | 3 | Discontinued. |
| Honor | boscalid + pyraclostrobin | B, F, Ls, P | 7 + 11 | Combination fungicide for use on golf courses. |
| Howler Evo | <i>Pseudomonas chlororaphis</i> strain AFS009 | A, B-N, F | BM02 | Biological used mainly for <i>Botrytis</i> . UV sensitive. Synergistic with propiconazole. It can also cause cross resistance to fludioxonil. O |
| Hurricane | fludioxonil + mefenoxam | N, F, Fs, P, S | 12 + 4 | Discontinued. |
| iodomethane | Midas | Fum, V | -- | Discontinued. |
| imazalil | Double R, Fungaflor | F, S | 3 | Especially active against benzimidazole-resistant strains of plant pathogenic fungi. |
| Indar | fenbuconazole | B-N, C, F, Ls, P | 3 | Tree fruit label. Excellent against brown rot. |
| Indemnify | fluopyram | Nem, F, P | 7 | A fungicide with nematocidal activity for use on lawns and turf. |
| Infuse Systemic Disease Control Lawn & Landscape | thiophanate methyl | B, F, P, S | 1 | Home label for an old fungicide. Fungal resistance common. |
| Infuse Systemic Disease Control | propiconazole | B-N, C, F, Ls, P | 3 | Home label for this good fungicide. |
| inpyrfluxam (Indiflin) | Excalia | F, P | 7 | A few fruit and field crops to start. |
| Insignia | pyraclostrobin | B, F, Ls, P | 11 | Turf and ornamental label for this strobilurin. |
| Inspire | difenoconazole | B-N, C, F, Ls, P | 3 | Labels for sugar beet and fruit. |
| Inspire Super | difenoconazole + cyprodinil | B-N, C, F, Ls, P | 3 + 9 | For pome fruit and nuts. |
| Instill | copper sulfate pentahydrate | B, Bact, F | M1 | Another copper label for several crops. See also Phyton 27. |
| Instrata | chlorothalonil + propiconazole + fludioxonil | B, C, F, Ls, P | M5 + 3 + 12 | Combination label for turf. |
| Intego | ethaboxam | C, Ls, N, P, S | 22 | For oomycete-caused diseases in field crops |
| Intercept | <i>Coniothyrium minitans</i> | F | | Discontinued name, see Contans. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|--------------------------|---|-------------------|--------------------|---|
| Interface | iprodione + trifloxystrobin | B, C, F, Ls, P | 2 + 11 | Combination fungicide for use on turfgrass. |
| Intuity | mandestrobin | B, F, Ls, P | 11 | Another strobilurin for grapes and strawberries. |
| ipconazole | Rancona 3.8 FS | B, F P | 3 | Seed treatment for a broad range of crops. |
| ipflufenquin | Axios | F | 52 | Pome fruit and almond label to start. |
| iprodione | Chipco 26019, Rovral, Epic 30, Nevado, Iprodione, and many others | F, N-B, P | 2 | Active on a broad spectrum of diseases: <i>Botrytis</i> , <i>Sclerotinia</i> , <i>Monilinia</i> , <i>Alternaria</i> , <i>Helminthosporium</i> , <i>Fusarium</i> , <i>Rhizoctonia</i> , etc. |
| isofetamid | Kenja, Astun | B-N, C, F, Ls, P | 7 | Small fruit and ornamental fungicide. |
| Jet-Ag | peroxides | B, D | NC | Labeled as an algacide as well as bactericide and fungicide. |
| JMS Stylet Oil | aliphatic petroleum distillate (HMO) | E, F, I, P | NC | Good activity against powdery mildews. Do not use near sulfur applications. |
| Judge | fenhexamid | F, N, P | 17 | Discontinued name. |
| Junction | copper hydroxide + mancozeb | Bact, B | M1 + M3 | Developed to control bacteria (on ornamentals) that are resistant to copper products. |
| Kaligreen | potassium bicarbonate | E, F | NC | To supplement powdery-mildew control programs. |
| Kalmor | copper hydroxide | B, Bact, F | M1 | Another copper for food crops and ornamentals. |
| Karathane | dinocap | | | Discontinued. |
| kasugamycin | Kasumin | Bact, P | 24 | Control of bacterial diseases such as fire blight. |
| Kasumin | kasugamycin | Bact, P | 24 | Control of bacterial diseases such as fire blight. |
| Kenja | isofetamid | B-N, C, F, Ls, P | 7 | Small fruit fungicide. |
| Kentan | copper hydroxide | B, Bact, F | M1 | Registered on many crops. |
| Kestrel | propiconazole | B-N, C, F, Ls, P | 3 | Another generic of a great fungicide. |
| KitoGard | chitosan | A, B | NC | A chitosan formulation that is an activator of host defense responses in plants. May be applied to all crops and has no preharvest interval or reentry interval requirements. Has been touted as a nematocide and bactericide. Activity has not been stellar. |
| KleenGrow | quaternary ammonium | D | | Disinfectant with over the plant label for some ornamentals. Bulb dips also. |
| Koban 30 | etridiazole | F, N | 14 | Discontinued. |
| Kocide 50 DF | copper hydroxide | B, F, P | M1 | Popular copper product for controlling many diseases. Several formulations are available. |
| Kodiak | <i>Bacillus subtilis</i> | F, P | NC | Discontinued. |
| Kop-R-Spray | copper ammonium carbonate | Bact, F | M1 | Discontinued. |
| Koverall | mancozeb | B, F, P | M3 | Old chemistry that is a good protectant fungicide. |
| kresoxim-methyl | Cygnus, Sovran | B, F, Ls, P | 11 | Strobilurin fungicide effective on powdery mildew and many other fungi. Phytotoxic on a few cherry cultivars such as Van. |
| Kudos | prohexadione calcium | Growth regulator | NC | Growth regulator to help limit fire blight symptoms on apple and pear. |
| Kumulus | sulfur | F, I, P, V | M2 | Discontinued. |
| LALStop G46 | <i>Clonostachys rosea</i> strain J1446 | A, B-N, F | BM02 | Biological. O |
| LALStop K61 | <i>Streptomyces</i> sp. strain K61 | A, B-N, F | BM02 | Biological. O |
| laminarin | Vacciplant | A | P4 | Wide range of crops it can be used on. Better activity on annuals than perennials. |
| Laredo | myclobutanil | B-N, C, F, Ls, P | 3 | Just labeled for almond. |
| Legion | fosetyl-AL | A, Bact, Fs, P, S | P7 | Discontinued. |
| Lesan | fenaminosulf | | | Discontinued. |
| Lexicon | fluxapyroxad + pyraclostrobin | B-N, F, Ls, P | 7 + 11 | Turfgrass label. |
| LifeGard | <i>Bacillus mycooides</i> isolate J | A | | Biofungicide for use on fruit, field, nut and vegetable crops. O |
| Lilly Miller Sulfur Dust | sulfur | | | Discontinued. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|------------------------|---|----------------------|--------------------|--|
| lime sulfur | Lime-Sulfur, Sulforix | B, E, F, I | | A fungicide that denatures fungal structures on contact. Good dormant-season control of insects and mites. O |
| LSP Flowable Fungicide | thiabendazole | F, P, S | 1 | Seed treatment effective against common bunt of wheat. |
| Luna Experience | fluopyram + tebuconazole | F, P B-N, C, Ls | 7 + 3 | Tree crop and grape foliar and fruit disease of wheat. |
| Luna Privilege | fluopyram | F, P | 7 | Vegetables and tree crop foliar and fruit disease management. |
| Luna Sensation | fluopyram + trifloxystrobin | F, P B-N, C, Ls | 7 + 11 | Tree crop and grape foliar and fruit disease management. |
| Luna Tranquility | fluopyram + pyrimethanil | F, N, P | 7 + 9 | Vegetable and fruit disease management. |
| Magister | fenazaquin | Ar, I, P | 39 | An acaricide mixed with fenazaquin with activity on powdery mildew. Bees are very sensitive. Labeled for cherry, hop, Christmas trees, and non-bearing fruit. |
| Magus | fenazaquin | Ar, I, P | 39 | An acaricide with activity on powdery mildew. Bees are very sensitive. Labeled for ornamentals. |
| Majestene | Dead <i>Burkholderia</i> spp. strain A396 | Nem | NC | Nematacide for use after planting. O |
| mancozeb | Fore, Dithane, Manzate, Pentathelon Protect, and many others | B, F, P | M3 | Good protectant fungicide and seed treatment. |
| mandestrobin | Intuity, Pinpoint | B, F, Ls, P | 11 | Another strobilurin for grapes, strawberries and turf. |
| mandipropamid | Revus (Revus Top, Orondis Ultra) Micora | N, F, P | 40 | For control of some oomycetes like downy mildew but not Pythium. |
| maneb | Manex | B, F, P | M3 | Moderately effective protectant fungicide. |
| Manex | maneb | B, F, P | M3 | Discontinued. |
| ManKocide | copper hydroxide + mancozeb | Bact, B | M1 + M3 | Developed to control bacteria resistant to copper products. |
| Marvista | Methylcyclopropene (1-MCP) | N | | Pre-harvest applicator that prevents ethylene production in stored fruit so it helps control ripening and scald of apple among other things. |
| MasterCop | Copper sulfate pentahydrate | B, Bact, F | M1 | Broad label for many crops. |
| Maxim | fludioxonil | F, P | 12 | A seed treatment. |
| Maxim MZ | fludioxonil + mancozeb | F, P | 12 + M3 | Potato seed piece treatment for suppression of Fusarium dry rot, black scurf (<i>Rhizoctonia</i> sp.), and silver scurf (<i>Helminthosporium</i> sp.). |
| Maxtima | mefentrifluconazole | B-N, C, F, Ls, P | 3 | Turf label. |
| Medallion | fludioxonil | F, N, P | 12 | Registered to control Rhizoctonia on ornamentals. |
| mefenoxam | Ridomil Gold, Subdue MAXX, Apron XL, Mefenoxam 2 (Quadris, Ridomil Gold, Ridomil Gold Bravo, Uniform) | Fs, P, S | 4 | The biologically active R-enantiomer of metalaxyl. |
| mefentrifluconazole | Avelyo, Cevya, Maxtima, Provysol (Veltyma) | B-N, C, F, Ls, P | 3 | Flexible molecule that helps with cross-resistance management within this FRAC 3 group. |
| MeloCon | <i>Paecilomyces lilacinus</i> strain 251 | Nem, P | NC | A nematode used for biological control of nematodes that can be used after planting but better when used at planting. Stable for weeks in the refrigerator. O |
| Merivon | fluxapyroxad + pyraclostrobin | F, P, B-N, C, Ls | 7 + 11 | Tree fruit fungicide for powdery mildew and several other diseases. Do not use near grapes. |
| Mertect 340-F | thiabendazole | F, P, S | 1 | Has a number of good postharvest uses if resistance is not yet a problem. |
| Messenger | harpin | A | | Discontinued name. |
| metalaxyl | Ridomil, Subdue, Apron Allegiance, Acquire, MetaStar, (Obvius) | C, Fs, P, S | 4 | Best control of oomycetes if resistance is not yet a problem. May have curative properties, but using it that way encourages resistance to the chemical. |
| metam-sodium | Vapam HL, Metam CLR | E, F, Fum, I, Nem | | Restricted-use materials. Soil disinfectant for soil fungi, nematodes, soil insects (wireworms, centipedes) and weeds. Field area or row application by soil injection or sprinkler injection. Treat seed, plant beds, and potting soil by different methods. Penetration and effectiveness is improved by water seal. Repeated applications may encourage bacteria that degrade this chemical faster. |
| Metapicrin | chloropicrin | Bact, F, Fum, I, Nem | | Discontinued. |
| MetaStar | metalaxyl | Fs, N, P, S | 4 | For control of oomycetes in many crops. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|-----------------------------------|---|-------------------------------|--------------------|--|
| metconazole | Quash, Tourney | B-N, C, F, Ls, P | 3 | Labeled for tree fruit, nuts, and turf. |
| Meteor | iprodione | F, N-B, P | 2 | Active on several diseases such as <i>Botrytis</i> and <i>Monilinia</i> . |
| metrafenone | Vivando | F, Ls, N, P | 50 | Active on fruit and hop powdery mildews. |
| methyl bromide | Brom-o-Gas, Terr-o-Gas Tri-con | B, Bact, E, F, Fum, I, Nem | | Odorless fumigant. Discontinued when classified as an ozone depleter under the Clean Air Act. Restricted use. |
| methylcyclopropene | SmartFresh | N | | Prevents ethylene production in stored fruit so it helps control ripening and scald of apple among other things. |
| metiram | Polyram | B, F, P | M3 | Used to prevent downy mildews, anthracnose, rusts, leaf spots, and seedling damping-off. |
| Mettle | tetraconazole (Affiance) | B-N, C, F, Ls, P | 3 | Labeled for grapes, cucurbits, and solaneous vegetables. |
| Micora | mandipropamid (Affiance) | N, F, P | 40 | Ornamental fungicide for aerial oomycete management. |
| Microcop | copper sulfate | B, Bact, F, P | M1 | Discontinued. |
| Microthiol Disperss | sulfur | F, I, P, V | M2 | Good on powdery mildew. |
| Midas | iodomethane + chloropicrin | Fum, V | -- | Discontinued. |
| Milban | dodemorph acetate | E, F | 5 | Discontinued. |
| MilStop | potassium bicarbonate | E, F | NC | Might be used to supplement a powdery mildew program. O |
| Mirage | tebuconazole | B-N, C, F, Ls | 3 | Lawn and turf label for this fungicide. |
| Miravis | pydiflumetofen | F, P | 7 | Label for peanut and fruit crops. |
| Miravis Ace | pydiflumetofen + propiconazole | B-N, C, F, Ls, P | 7 + 3 | Label just for cereal grains. |
| Miravis Ace A | pydiflumetofen | F, P | 7 | Discontinued. |
| Miravis Ace B | propiconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Miravis Duo | pydiflumetofen + difenconazole | B-N, C, F, Ls, P | 7 + 3 | Fruits and nuts label. |
| Miravis Neo | pydiflumetofen + propiconazole + azoxystrobin | B-N, C, F, Ls, P | 3 | Broad-spectrum fungicide for vegetables and row crops. |
| Miravis Prime | pydiflumetofen + fludioxonil | F, B-N, P | 7 + 12 | Broad-spectrum fungicide for fruit, potato, and vegetables. |
| MiravisTop | pydiflumetofen + difenconazole | B-N, C, F, Ls, P | 3 + 7 | Broad-spectrum fungicide for dry beans and certain vegetables. |
| Mocap | ethoprop | B, E, I, Nem | | Action on contact; must be mixed with soil or carried by water into soil. |
| MoldBlock | SOPP | F | NC | Fungicide used in pear-processing dump tanks. |
| Moncut | flutolanil | F, P | 7 | In-furrow use for potatoes for control of <i>Rhizoctonia</i> . 24-C label for bulbs in WA. |
| Monsoon Turf | tebuconazole | B-N, C, F, Ls, P | 3 | For use on ornamentals and golf courses. |
| Monterey Complete Disease Control | <i>Bacillus amyloliquefaciens</i> strain D747 | F, P | BM02 | Biological for use in the home garden. H O |
| Monterey Fungi-Fighter | propiconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Monterey Liqui-Cop | copper diammonia diacetate complex | B, Bact, F | M1 | Home label for many diseases. H |
| Morestan | oxythioquinox | F, I | | Discontinued. Insecticide with some activity against powdery mildews. |
| MossMax | ferrous sulfate | C, N | NC | Kills moss on contact but can stain cement drive ways and sidewalks. |
| Moss Out | ferrous sulfate | C, N | NC | Kills moss on contact but can stain cement drive ways and sidewalks. |
| Moss Terminator | ferrous sulfate | C, N | NC | Kills moss on contact but can stain cement drive ways and sidewalks. |
| Mozart TR | fludioxonil | F, N, P | 12 | Discontinued. |
| M-Pede | fatty acids (soap) | E, F, I, P | | Used mostly for soft-bodied insects but with good activity against powdery mildews. O |
| Mural | solatenol (benzovindiflupyr) + azoxystrobin | B-N, F, Ls, P | 7 + 11 | Third generation group 7 material, both materials have slow uptake. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------------|--|-------------------|--------------------|---|
| Muscle | tebuconazole | B-N, C, F, Ls, P | 3 | For rust and powdery mildew control in grasses grown for seed. |
| myclobutanil | Rally, Systhane, Nova, Eagle Immunox, Laredo | B-N, C, F, Ls, P | 3 | Used for scab and powdery mildew. Resistance beginning to show up throughout PNW. |
| Myclotect | myclobutanil | B-N, C, F, Ls, P | 3 | Generic of a popular fungicide. |
| Mycoject | oxytetracycline | Bact, P | 41 | Used for tree injection against bacterial and phytoplasma diseases. |
| MycoShield | oxytetracycline | Bact, P | 41 | Antibiotic used on pears against fire blight. |
| Mycostop | <i>Streptomyces griseoviridis</i> strain 61 | F, P | BM02 | Biological seed, transplant or cutting dip for several crops. O |
| Mylone | dazomet | | | Discontinued. |
| MZ Curzate | mancozeb + cymoxanil | F, P | M3 + 27 | Potato seed piece treatment for suppression of <i>Fusarium</i> , dry rot and spread of <i>Phytophthora infestans</i> between seed-pieces. |
| natamycin | BioSpectra | B, P, F | 48 | Fermentation product of <i>Streptomyces</i> spp. Active against fungi but nontoxic to humans. Unstable in UV light. |
| Natria Disease Control RTU | <i>Bacillus subtilis</i> strain QST 713 | F, P | BM02 | Home label for this biocontrol. OK for powdery mildew control. H O |
| Navicon | mefentrifluconazole + pyraclostrobin | B-N, C, F, Ls, P | 3 + 11 | Turf label. |
| Neem oil | Trilogy, Triact, Garden Defense, Rango | E, F, I, N, P | NC | Botanic oil active on powdery mildews. O |
| Nemacur | fenamiphos | C, Nem, S | | Discontinued. |
| Nema Q | saponins | ? | NC | Botanical extract from <i>Quillaja saponaria</i> for suppression of neamtodes |
| Nemasol | metam-sodium | E, F, Fum, I, Nem | | Discontinued name. |
| Nevado | iprodione | F, N-B, P | 2 | Discontinued. |
| Nexy | <i>Candida oleophila</i> strain O | N, F, P | NC | Biological for postharvest dip or drench of apples and pears against gray and blue mold. |
| Nimitz | fluensulfone | Nem | --- | Post plant nematocide for use on vegetables and strawberries. |
| Nogall | <i>Agrobacterium radiobacter</i> | Bact, P | NC | New strain of the bacterium for crown gall. O |
| Norbac | <i>Agrobacterium radiobacter</i> | Bact, P | | Discontinued. |
| Nordox | cuprous oxide | B, Bact, F, P | M1 | Activity similar to other copper products. O |
| Nortica | <i>Bacillus firmus</i> strain I-1582 | F, P | NC | Discontinued. |
| Nova | myclobutanil | B-N, C, F, Ls, P | 3 | Discontinued name. |
| Nu-Cop | copper hydroxide | B, Bact, F, P | M1 | Good fungicide and bactericide for many diseases. Was called Blue Shield. |
| Nutrol | potassium dihydrogen phosphate | E, F | NC | Similar to potassium bicarbonates in fungicidal activity. |
| Nuzone | imazalil | F, S | 3 | Discontinued. |
| Obtego | <i>Trichoderma asperellum</i> + <i>T. gamsii</i> | F, P | BM02 | Biological for ornamental world. |
| Obvius | metalaxy + fluxapyroxad + picoxystrobin | B, F, Ls, P | 4 + 7 + 11 | Fungicide seed treatment combination for field crops. |
| OHP 26 GT-O | iprodione | F, N-B, P | | Discontinued name. |
| OHP 6672 | thiophanate-methyl | B, F, P, S | 1 | Ornamental label for a benomyl-like product. |
| Omega | fluazinam | F, P | 29 | Labeled for use on potato for <i>Phytophthora</i> and <i>Sclerotinia</i> diseases. |
| Organocide Plant Doctor | phosphorous acid | A, Fs, N, P, S | P7 | Discontinued. |
| Orius | tebuconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Orkestra | fluxapyroxad + pyraclostrobin | B-N, F, Ls, P | 7 + 11 | Ornamental label. |
| Ornalin | vinclozolin | F, Ls, P | | Discontinued. |
| Orondis Gold | oxathiapiprolin + mefenoxam | F, Fs, P, S | 4+49 | Combination product for oomycetes. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|-------------------------------------|--|----------------------|--------------------|--|
| Orondis Opti | chlorothalonil + oxathiapiprolin | B, F, P | M5 + 49 | Fungicide for vegetables, ginseng and ornamental for use on downy mildews. |
| Orondis Ultra | oxathiapiprolin + mandipropamid | N, P | 49 + 40 | Premixed fungicide for vegetables to control oomycetes such as downy mildew. |
| Ortho Rose & Flower Disease Control | triticonazole | B-N, C, F, Ls, P | 3 | Home label for slightly different DMI in this market. |
| Orthorix | lime sulfur | B, E, F, I | | Discontinued name changed to Sulforix. |
| Orvego | dimethomorph + ametoctradin | F, P | 40 + 45 | Ornamental fungicide for oomycete management. |
| Oso | polyoxin D | F | 19 | Liquid formulation of this active ingredient. O |
| oxadixyl | Anchor | F, N, S | | Discontinued. |
| oxathiapiprolin | Segovis Orondis Gold (Orondis Opti, Orondis Ultra) | N, F, | 49 | Active on oomycetes. |
| oxamyl | Vydate, Return | I, Nem | | For certain insects, mites, and/or nematodes. Restricted use. |
| OxiDate | peroxide | B, D | | Disinfectant with very short residual activity. Registered like fungicides but do not use it that way. |
| OxiPhos | phosphorous acid + peroxide | A, B, D, Fs, N, P, S | P7 | Another material in this class with activity on oomycetes with the added disinfectant activity of peroxide. |
| oxycarboxin | Plantvax, Carboject | F, Ls, N | 7 | Foliar application for rusts in greenhouses or shade-houses. |
| oxytetracycline | Myco-Shield, Fireline, Arbor-OTC | Bact, P | 41 | Antibiotic for fire blight on pear. |
| oxthioquinox | Morestan | F, I | | Discontinued. |
| Pageant | pyraclostrobin + boscalid | B, F, Ls, P | 11 + 7 | Combination product for ornamental markets. |
| Paladin | dimethy disulfide | B, E, F, Fum, I, Nem | | Discontinued. |
| Palladium | fludioxonil + cyprodinil | F, B, P | 12 + 9 | Combination material for control of <i>Botrytis</i> and <i>Rhizoctonia</i> in ornamentals. |
| parinol | Parnon | | | Discontinued. |
| Parnon | parinol | | | Discontinued. |
| PathGuard | chlorothalonil | B, F, P | | Discontinued. |
| PathoCURB | thyme oil | E, F, I, P | NC | Oils are good for powdery mildew eradication. Don't mix with sulfur. |
| Pear Wrap | ethoxyquin + copper | N, P | M1 | Paper wrapped around pear fruit to prevent scald. |
| Pegasus | chlorothalonil | B, F, P | M5 | Another generic of a great fungicide. |
| Penbotec | pyrimethanil | F, N, P | 9 | Discontinued. |
| Penncozeb | mancozeb | B, F, P | M3 | General fungicide used on several crops to control many diseases. |
| pentachloronitrobenzene (PCNB) | Terraclor, Turfcide, Engage Defend, Blocker | B, F, P | 14 | Soil fungicide and seed dressing agent. Controls many soil fungi, storage rots, damping-off, and smut. |
| Pentathlon | mancozeb | B, F, P | M3 | Discontinued. |
| pen thiopyrad | Fontelis, Vertisan, Velista | B, F, P | 7 | Use on fruits and vegetables for management of many leaf spots, powdery mildew and fruit rots. |
| Pentra-Bark | polyalkylene modified heptamethyltrisiloxane | -- | -- | Surfactant that purports to penetrate bark. |
| peroxide | OxiDate, TerraCyte, ZeroTol, Jet-Ag | B, D | | Disinfectants with short residual activity. Can be used on plants, soil or inanimate objects such as greenhouse benches or irrigation lines. |
| PERpose Plus | peroxides | B, D | NC | Labeled as an algacide and fungicide. |
| Phaltan | folpet | | | Discontinued. |
| Ph-D | polyoxin D | F | 19 | Label for fruiting crops. |
| Phospho Jet | phosphorous acid | A, Fs, N, P, S | P7 | Inject into trees to control oomycetes such as <i>Phytophthora ramorum</i> . |
| Phosphorous Acid | Fosphite, Alude, Agri-Fos Phostrol, Topaz, ArborFOS, Fungi-phite, and more | A, Fs, N, P, S | P7 | Activity against oomycete fungal-like organisms. Not a fertilizer. O |
| Phostrol | phosphorous acid | A, Fs, N, P, S | P7 | Active against oomycete fungal-like organisms. |
| Physan 20 | quaternary ammonium | D | | Disinfectant with an over the plant label. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|------------------------|--|----------------------|--------------------|---|
| Phyton 27 | tannate complex of picro cupric ammonium formate | B, Bact, F, P | M1 | Copper product with many labeled uses. |
| Pic-Brom | methy bromide + chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| Pic-Clor | dichloropropene + chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| picoxystrobin | Aproach (Obvius) | B, F, Ls, P | 11 | For control of a range of foliar pathogens in field crops including canola, cereal grains except rice, sorghum, corn, dried legume vegetables, and soybean and hazelnuts. |
| Pillar | triticonazole + pyraclostrobin | B, C, F, Ls, P | 3 + 11 | Combination fungicide for use on turfgrass. |
| Pinpoint | mandestrobin | B, F, Ls, P | 11 | Turfgrass label. |
| piperalin | Pipron | F, N | 5 | Ornamental fungicide for powdery mildew. |
| Pipron | piperalin | F, N | 5 | Ornamental fungicide for powdery mildew. |
| PlantShield | <i>Trichoderma harzianum</i> Rifai strain T-22 | F, P | BM02 | Discontinued. |
| Plantvax | oxycarboxin | F, Ls, N | 7 | Discontinued. |
| PMA | phenylmercury acetate | | | Discontinued. |
| Polyoxin D | Endorse, Veranda, Ph-D, Affirm, OSO | F | 19 | Antibiotic active against certain fungi and bacteria. |
| Polyram | metiram | B, F, P | M3 | Discontinued. |
| Polysul | lime sulfur | B, E, F, I | | Discontinued. |
| Posterity | pydiflumetofen | F, P | 7 | Turf label only. |
| Postiva | pydiflumetofen + difenconazole | B-N, C, F, Ls, P | 7 + 3 | Label for ornamentals, conifers, Christmas trees and greenhouse-grown vegetables. |
| potassium bicarbonate | Armicarb, Kaligreen, Remedy, MilStop, Vacres | E, F | NC | Has activity against powdery mildew, but do not believe any claims for black spot of rose. |
| PreFence | <i>Streptomyces</i> sp. strain K61 | F, P | BM02 | Discontinued. |
| Premion | PCNB + tebuconazole | 3 + 14 | | Turfgrass label. |
| Preplant Soil Fumigant | methy bromide + chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| Presidio | fluopicolide | F, N, P | 43 | For control of oomycetes in vegetables and grapes. Prone to resistance problems so must be tank-mixed. |
| Prestop | <i>Gliocladium catenulatum</i> strain J1446 | F, P | BM02 | Discontinued. |
| Prev-Am | borax | I, P | | Label for insects, powdery mildew, and has activity some other fungi. |
| Previa | chlorothalonil | B, F, P | M5 | Label for turf and landscape trees. |
| Previcur | propamocarb | F, P | 28 | Systemic fungicide for mix with contact fungicide to use for control of potato late and early blights. |
| Previsto | copper hydroxide | B, Bact, F | M1 | Copper hydroxide in a matrix with Alginate. Has done well against fire blight. |
| Prevont | <i>Bacillus subtilis</i> strain IAB/BS03 | A, B-N, F | BM02 | Biological renamed Aviv and Fungisei. |
| Priaxor Xemium | fluxapyroxad + pyraclostrobin | B, F, P, C, Ls | 7 + 11 | Broad-spectrum fungicide combination labeled for various vegetable and field crops. |
| Pristine | pyraclostrobin + boscalid | B, F, Ls, P | 7 + 11 | Combination product from BASF registered on fruit and vegetables. |
| ProAct | Harpin protein | A | NC | Stimulates disease suppression system, labeled for in row crops. |
| Problad | BLAD | F | BM01 | Registered for fruits and vegetables. |
| Problad Verde | BLAD | F | BM01 | Registered for fruits and vegetables. See Fracture. |
| ProCon-Z | propiconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Procure | triflumizole | B-N, C, F, Ls, P | 3 | For grapes and pears. |
| ProGibb | gibberellic acid | Growth regulator | NC | Plant hormone used to change growth of plants for aesthetic and disease control reasons (grapes). |
| Pro-gro | carboxin + thiram | B, F, P | 7 + M3 | Seed protectant for onion seed for smut. |
| prohexadione calcium | Apogee | Growth regulator | | Labeled for apple to slow down or minimize shoot growth and thus susceptibility to fire blight. |
| Proline | prothioconazole | B-N, C, F, Ls, P | 3 | Field crop label and some fruits. Great on <i>Monilinia</i> . Phytotoxicity on hazelnuts. |
| Proливо | pyriofenone | F, Ls, N, P | 50 | Useful on cucurbit and fruit powdery mildews. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|---|--------------------|--------------------|---|
| Pro-Mix BX | <i>Bacillus pumilus</i> strain GHA180 | A, B-N, F | BM02 | Potting mix of sphagnum peat moss, other materials and the bacteria already incorporated into the mix. The mycorrhizae fungus <i>Glomus intraradices</i> is also incorporated for enhanced nutrient uptake. |
| propamocarb | Previcur, Tattoo, Banol Proplant (Stellar) | F, P | 28 | Systemic fungicide to mix with contact fungicide to use for control of potato late and early blights. Ornamental labels are Banol and Proplant |
| ProPensity | propiconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| ProPhyt | phosphorous acid | A, Fs, N, P, S | P7 | Useful for oomycetes. |
| propiconazole | Alamo, Tilt, Banner, Bumper, PropiMax, Ferti-lome Systemic Fungicide, (Concert) and many others | B-N, C, F, Ls, P | 3 | Has systemic and eradicative properties. Also growth regulation activity on a number of crops. Phytotoxicity on hazelnuts. |
| PropiMax | propiconazole | B-N, C, F, Ls, P | 3 | Popular fungicide with systemic and eradicant properties. |
| Propizol | propiconazole | B-N, C, F, Ls, P | 3 | Generic product for injection into trees. |
| Proplant | propamocarb | F, P | 28 | Ornamental label registered for control of oomycetes. |
| Propulse | fluopyram + prothioconazole | B, F, Ls, P | 3 + 7 | Field crops and small fruit label. |
| ProStar | flutolanil | F, S | 7 | Used for turf diseases only. |
| Protect | mancozeb | B, F, P | M3 | Ornamental fungicide used on many crops to control many diseases. More ornamentals listed than on other similar labels. |
| Protégé | azoxystrobin | F, P | 11 | Discontinued name. |
| Pro-tex | maneb + triphenyltin hydroxide | F, P | M3 + 30 | Potato early and late blight, Cercospora leaf spot of sugar beet. Restricted use. |
| Protexio | fenpyrazamine | F, N, P | 17 | For use against Botrytis and related fungi. Although registered it is not manufactured due to a garlic smelling residue on fruit crops. |
| prothioconazole | Proline, Densicor, (Propulse) | B-N, C, F, Ls, P | 3 | DMI material for field and fruit crops. Phytotoxicity on hazelnuts. |
| Protocol | propiconazole + thiophanate-methyl | B, C, F, Ls, P, S | 1+3 | Broad label for a different combination of fungicides. |
| Provysol | mefentrifluconazole | B-N, C, F, Ls, P | 3 | Labeled for various vegetables and field crops. |
| PureCrop1 | Soybean and corn oils | B-N, F, I | NC | Botanical oils are active on powdery mildews. |
| pydiflumetofen | Posterity, Miravis, Salto, Postiva, (Miravis Ace, Miravis Duo, Miravis Neo, Miravis Prime, Miravis Top) | F, P | 7 | Starting out on many crops. |
| Pylon | chlorfenapyr | I, Nem | | An ornamental miticide with activity against foliar nematodes. |
| pyraclostrobin | Empress, Cabrio, Headline, Insignia, Stamina, (Pristine, Merivon, Honor, Pillar, Orkestra) | B, F, Ls, P | 11 | Next generation strobilurin after kresoxim-mthyl. Better activity on numerous diseases. |
| pyrimethanil | Penbotec, Scala, (Luna Tranquility) | F, N, P | 9 | Fungicide used for Botrytis and Monilinia control and postharvest on pome fruit. |
| pyriofenone | Prolivo, Seido | F, Ls, N, P | 50 | Useful on cucurbit and fruit powdery mildews. |
| Quadris | azoxystrobin | B, F, Ls, P | 11 | Effective strobilurin compounds, active against a very large number of fungi. |
| Quadris Opti | azoxystrobin + chlorothalonil | B, F, P | 11 + M5 | Broad-spectrum fungicide for vegetables. |
| Quadris Ridomil Gold | azoxystrobin + mefenoxam | B, F, Fs, Ls, P, S | 11 + 4 | Broad-spectrum fungicide for potatoes. |
| Quadris Top | difenconazole + azoxystrobin | B-N, C, F, Ls, P | 3 + 11 | Combinations product for vegetables and tree fruit. |
| quaternary ammonium | KleenGrow, Phsan 20 | D | | Disinfectants that can be used over the plant. No residual so use often. |
| Quash | metconazole | B-N, C, F, Ls, P | 3 | Labeled at first for tree fruit and nuts. |
| Quell | metalaxyl | C, Fs, P, S | | Discontinued name. |
| Quilt | azoxystrobin | B, F, Ls, P | 11 | Discontinued. |
| Quilt Xcel | azoxystrobin + propiconazole | B, F, Ls, P | 11 + 3 | A combination fungicide for stone fruit, cereals, and grass-for-seed disease control. |
| quinoxifen | Quintec | F, N, P | 13 | For control of only powdery mildews in general. Good on hop, however, ineffective on apple powdery mildew. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|-----------------------|---|------------------|--------------------|---|
| Quintec | quinoxifen | F, N, P | 13 | For control of only powdery mildews in general. Good on hop, however, ineffective on apple powdery mildew. |
| Rally | myclobutanil | B-N, C, F, Ls, P | 3 | Fungicide with systemic and eradicative. properties. Excellent against powdery mildew diseases but resistance becoming a problem. |
| Rampart | phosphorous acid | A, Fs, N, P, S | P7 | Another material in this class with activity on oomycetes. Can be trunk injected. |
| Rancona | ipconazole | B, F P | 3 | Seed treatment for a broad range of crops. |
| Rango | neem oil | E, F, I, N, P | NC | Botanic oil registered on many crops. |
| Ranman | cyazofamid | N, F, Ls, P | 21 | Activity against oomycete fungal-like organisms. |
| Rayora | flutriafol | B-N, C, F, Ls, P | 3 | Turf label. |
| Raxil | tebuconazole | B-N, C, F, Ls, P | 3 | Labeled as a seed treatment. |
| Raxil MD | tebuconazole + metalaxyl | B, C, F, Ls, P | 3 + 4 | Labeled as a seed treatment for control of various seed-borne and soilborne diseases in cereals. |
| Reach | chlorothalonil + triadimefon | B, C, F, Ls, P | | Discontinued. |
| Reason | fenamidone | F, P | 11 | Effective against certain foliar diseases in vegetable crops. |
| Regalia | Extract of <i>Reynoutria sachaliensis</i> | A | P5 | Activator of plant resistance. Labeled for ornamentals, fruit, hop, herbs, nut, and vegetable crops. |
| Regev | difenconazole + Tee Tree Oil | B-N, C, F, Ls, P | 3 + BM01 | Good group 3 material for many diseases but not sure what the oil is for beyond as a surfactant and/or for resistance management on powdery mildew. |
| Regime | BLAD | F | BM01 | Discontinued. |
| Reliant | phosphites | A, Fs, N, P, S | P7 | Generic label for many crops and ornamentals. |
| ReLoad | phosphites | A, Fs, N, P, S | P7 | Discontinued name. |
| Remedy | potassium bicarbonate | E, F | NC | Discontinued name. |
| Renown | chlorothalonil + azoxystrobin | B, F, Ls, P | M5 + 11 | Turf label. |
| Return | oxamyl | I, Nem | | Restricted use material. For certain insects, mites and/or nematodes. |
| Revus | mandipropamid | N, F, P | 40 | For control of some oomycetes like downy mildew, but not Pythium, in certain vegetables and grapes. |
| Revus Top | mandipropamid + difenoconazole | B, F, P, S | 3 + 40 | For control of many diseases in tomato and potato. |
| Rhapsody | <i>Bacillus subtilis</i> strain QST 713 | F, P | BM02 | Ornamental label for this biocontrol product. Protein in culture filtrate is actual active ingredient. O |
| Rhizopro | <i>Bacillus subtilis</i> var. <i>amyloliquefaciens</i> strain FZB24 | A | BM02 | Discontinued. |
| Rhyme | flutriafol | B-N, C, F, Ls, P | 3 | Registered for control of foliar diseases in nuts, fruits, hops, and certain vegetable crops. |
| Ridomil | metalaxyl | Fs, P, S | 4 | Active against oomycetes when resistance is not a problem. |
| Ridomil Gold | mefenoxam | Fs, P, S | 4 | The biologically active R-enantiomer of metalaxyl. |
| Ridomil Gold Bravo SC | mefenoxam + chlorothalonil | B-N, Fs, P, S | 4 + M5 | Prepacked mix for vegetable crops in the field. |
| Ridomil Gold Copper | mefenoxam + copper hydroxide | B-N, Fs, P, S | 4 + M1 | Prepacked mix for downy mildews. |
| Ridomil Gold MZ | mefenoxam + mancozeb | B-N, Fs, P, S | 4 + M3 | Prepacked mix for downy mildews. |
| Romeo | cerevisane | A, P | NC | Cell walls of <i>Saccharomyces cerevisiae</i> strain LAS 117 (Brewer's yeast) that stimulates host defense mechanisms. O |
| Ronilan | vinclozolin | B-N, F, Ls, P | 2 | Discontinued. |
| RootShield | <i>Trichoderma harzianum</i> Rifai strain T-22 | F, P | BM02 | Biological for various root diseases. H O |
| RootShield Plus | <i>Trichoderma harzianum</i> and <i>Trichoderma virens</i> | F, P | BM02 | Biocontrol labeled for a range of crops. O |
| Roper | mancozeb | B, F, P | M3 | Broad-spectrum fungicide for fruit and vegetables. |
| Rovral | iprodione | B-N, F, Ls, P | 2 | Good fungicide against Botrytis if resistance is not a problem. |
| Rubigan | fenarimol | B-N, C, F, Ls, P | 3 | Discontinued. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|------------------------------|--|-------------------|--------------------|--|
| Safer Garden Fungicide | sulfur | F, I, P, V | M2 | Home label and packaging. Good on powdery mildew. H O |
| Saf-T-Side | refined petroleum distillate (oil) | E, F, N, P | NC | Discontinued. |
| Salibro | fluazaindolizine | Nem | N-UN | A novel, non-fumigant chemical nematicide for cucurbits, fruiting vegetables, carrots, potatoes, tree nuts, sweet potatoes, and other crops. May be applied using drip or micro-sprinkler irrigation, drench or soil spray followed by irrigation. |
| Saltro | pydiflumetofen | F, P | 7 | Labeled as a seed treatment for rapeseed, other oilseed crops, and soybean with activity against <i>Leptosphaeria</i> and <i>Fusarium</i> . |
| Satori | azoxystrobin | B, F, Ls, P | 11 | Generic of a popular fungicide. |
| Scala | pyrimethanil | F, N, P | 9 | Used for <i>Botrytis</i> and <i>Monilinia</i> control. |
| Scholar | fludioxonil | F, N, P | 12 | Postharvest label for stone fruits. Degraded by direct sunlight. |
| Secure | fluazinam | B, F, P | 29 | Lawn and turf label for tank-mixing in with fungicides at risk for resistance development. |
| sedaxane | Vibrance (Cruiser Maxx Vibrance, Helix Vibrance) | B, F, P | 7 | Broad spectrum seed treatment labeled for cereals and field crops. |
| Seido | pyriofenone | F, Ls, N, P. | 50 | Ornamental label for powdery mildew management. |
| Segovis | oxathiapiprolin | N, F, S | 49 | Ornamental label for use against downy mildews and aerial and soilborne <i>Phytophthora</i> diseases. |
| Segway | cyazofamid | N, F, Ls, P | 21 | Ornamental fungicide for downy mildews and aerial <i>Phytophthoras</i> . |
| Sentinel | cyproconazole | B-N, C, F, Ls, P | | Discontinued name. |
| Sequestrene 138 | chelated iron | Adjuvant | | Tank-mixed with BlightBan for better control of fire blight than with BlightBan alone. |
| Serenade | <i>Bacillus subtilis</i> strain QST 713 | F, P | BM02 | Biological labeled for gray mold, powdery mildews, and other foliar diseases on many crops. Has had variable testing results. H O |
| Serifel | <i>Bacillus amyloliquefaciens</i> strain MBI 600 | F, P | BM02 | Biological registered for "suppression" of many diseases. |
| Sextant | iprodione | F, N-B, P | | Discontinued name. |
| Shepherd | propiconazole | B-N, C, F, Ls, P | 3 | Label for tree injection. |
| Signature | fosetyl-Al | A, Fs, N, P, S | P7 | Same as Aliette but with a green pigment included for the turf market. |
| Sil-Matrix | potassium silicate | F, I | -- | General label for use on many crops. Do not use on open blooms of ornamentals. |
| SmartFresh | methylcyclopropene (1-MCP) | N | | Prevents ethylene production in stored fruit so it helps control ripening and scald of apple among other things. |
| sodium hypochlorite | Clorox, Agclor | Bact, E, F | | Bleach has a number of disinfectant uses. |
| sodium metabisulfite | Uvasys | B, F, Fum, V | M2 | Used as a disinfectant, antioxidant, and preservative agent. In pads for blueberry export market. |
| SoilGard | <i>Gliocladium virens</i> | F, P | NC | Biological for damping-off organisms. O |
| Soil-Prep | metam-sodium | E, F, Fum, I, Nem | | Discontinued name. |
| solatenol (benzovindiflupyr) | Aprovia (Mural, Elatus) | B-N, F, Ls, P | 7 | Third generation group 7 material, slow uptake. Trade-mark name for benzovindiflupyr. |
| Sonata | <i>Bacillus pumilis</i> strain QST 2808 | F, P | NC | Biocontrol product labeled for several diseases including powdery mildew. O |
| Sonoma | myclobutanil | B-N, C, F, Ls, P | 3 | Discontinued. |
| SOPP | Stri-Seal, MoldBlock | F | | Fungicide used in pear-processing dump tanks. |
| Sovran | kresoxim-methyl | B, F, Ls, P | 11 | Fruit label for a strobilurin compound. Phytotoxic on a few cherry cultivars such as Van. |
| Sparra | phosphorous acid | A, Fs, N, P, S | P7 | Activity against oomycete fungal-like organisms. Not a fertilizer. |
| Spectracide Immunox | myclobutanil | B-N, C, F, Ls, P | 3 | An effective fungicide for the home market. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|--|------------------|--------------------|--|
| Spectro | chlorothalonil + thiophanate-methyl | B, F, Ls, P | M5 + 1 | Ornamental label for a combination of two good fungicides. |
| Spirato | fludioxonil | F, N, P | 12 | Fungicide with an ornamental label that can be used in greenhouse and many other sites. |
| spiroxamine | Accrue | F, N, P | 5 | Discontinued. |
| Sporan | Rosemary oil + clove oil + thyme oil | E, F, I | BM01 | Botanicales good for organic powdery mildew control. |
| Sporax | borax | F, N, P | | Discontinued. |
| Spot-Less | <i>Pseudomonas aureofaciens</i> | F | NC | Discontinued. |
| Spotrete | thiram | B, F, P | M3 | Fungicide used for a few diseases but mostly as an animal repellent. |
| Spur Shield | cyclohexane polymer | P | NC | Wound sealant. |
| Stamina | pyraclostrobin | B, F, Ls, P | 11 | Seed treatment of cereals and legumes to control a broad spectrum of fungal diseases. |
| Stargus | <i>Bacillus amyloliquefaciens</i> strain F727 | F, P | 44 | Broad spectrum biological for vegetable, small fruit, and ornamental crops. O |
| Stature | dimethomorph | F, P | 40 | Ornamental label to control downy mildews. |
| Stellar | fluopicolide + propamocarb hydrochloride | N, F | 28 + 43 | Turf label for Pythium management. |
| Stratego | propiconazole + trifloxystrobin | B, C, F, Ls, P | 3 + 11 | Prepackaged fungicide mix for select markets. |
| streptomycin | Agri-Mycin, Harbour | Bact, P | 25 | Antibiotic; controls a number of commercially important bacterial plant pathogens including fire blight. |
| Streptrol | streptomycin | Bact, P | 25 | Discontinued. |
| Strider | propiconazole | B-N, C, F, Ls, P | 3 | Generic of a popular fungicide. |
| Strike | triadimefon | B-N, C, F, Ls, P | 3 | Discontinued. |
| Strike Plus | triadimefon + trifloxystrobin | B-N, C, F, Ls, P | 3 + 11 | Discontinued. |
| Stri-Seal | SOPP | F | | Fungicide used in pear-processing dump tanks. |
| Subdue | metalaxyl | C, Fs, P, S | 4 | Controls oomycetes if resistance has not occurred. |
| Subdue MAXX | mefenoxam | Fs, P, S | 4 | The biologically active R-enantiomer of metalaxyl. |
| Subtilex | <i>Bacillus subtilis</i> stain MBI 600 | F, P | BM02 | Biological registered for several fungal root pathogens and powdery mildew. O |
| SuffOil-X | Petroleum oil | F, I | -- | Has powdery mildew on the label. |
| Sulforix | lime sulfur | B, E, F | | New name instead of Orthorix. |
| sulfur | Kumulus, Microthiol Disperss, Cosavet, (Unicorn) | F, I, P, V | M2 | Sulfur is likely to injure plants above 85°F to 90°F. Effectively controls a variety of plant diseases especially powdery mildew. Do not use with oils. |
| Superior Oils | refined petroleum distillate (oil) | E, F, N, P | NC | Developed for summer orchard use and low phytotoxicity. These oils have a high content of paraffinic hydrocarbons with relatively small amounts of aromatic and naphthenic constituents. Use for insect and powdery mildew control as well as spray adjuvants. |
| Super Tin | TPTH | F, N, P | 30 | Used for early and late blight of potato. Restricted use. |
| Switch | cyprodinil + fludioxonil | F, B, P | 9 + 12 | The combination gives better Botrytis control and resistance management than either one of the ingredients does alone. Labeled for control of other diseases including powdery mildew. |
| Syllit | dodine | B, F, P | U12 | Used for a number of diseases such as apple scab and sycamore anthracnose. |
| Systemec | thiophanate-methyl | N-B, F, P | 1 | Discontinued name. |
| System 3 | <i>Bacillus subtilis</i> strain GB03 + Apron and Terraclor | F, P | NC + 4 + 14 | Seed treatment. |
| Systhane | myclobutanil | B-N, C, F, Ls, P | 3 | Discontinued. |
| Systox | demeton | | | Discontinued. |
| Tachigaren | hymexazole | ? | 32 | Seed treatment for sugar beets. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|---|----------------------|--------------------|---|
| Taegro | <i>Bacillus subtilis</i> var. <i>amyloliquefaciens</i> strain FZB24 | A | BM02 | Biocontrol product targeting <i>Rhizoctonia</i> and <i>Fusarium</i> . O |
| Tanos | famoxadone + cymoxanil | F, Ls | 11 + 27 | Labeled for hop and grape downy mildew, some |
| Tartan | triadimefon + trifloxystrobin | B-N, C, F, Ls, P | 3 + 11 | Control of certain foliar, stem, and root diseases of foliar diseases of vegetable crops. turfgrass including golf courses, sod farms, and sports fields. |
| Tattoo C | propamocarb hydrochloride + chlorothalonil | F, P | 28 + M5 | For potato late blight. |
| Tavano | polyoxin D | F | 19 | Discontinued. |
| TCMTB | Busan 30 A | F | | Fungicide seed treatment. |
| Tebucon | tebuconazole | B-N, C, F, Ls, P | 3 | One of many generics. |
| tebuconazole | Toledo, Raxil, Tebuject, Orius, Bayer Advanced, Tebucon, Tebuzol, Tebustar (Luna Experience) and many others. | B-N, C, F, Ls, P | 3 | For fruit, grass seed, and ornamentals. |
| Tebuject | tebuconazole | B-N, C, F, Ls, P | 3 | Used for tree injection against a few diseases. |
| Tebusha | tebuconazole | B-N, C, F, Ls, P | 3 | Discontinued. |
| Tebustar | tebuconazole | B-N, C, F, Ls, P | 3 | Fungicide for grasses grown for seed. |
| Tebuzol | tebuconazole | B-N, C, F, Ls, P | 3 | Flowable formulation of this DMI. |
| Tee-Off | thiophanate-methyl | B, F, P, S | 1 | Discontinued name. |
| Telone II | dichloropropene | B, E, Fum, Nem | | Preplant for nematode, disease, insect, and weed control on a variety of crops. Harmful to crop plants and applied only as preplant to control nematodes. Do not apply in glasshouses containing plants. Apply year-round if soil conditions are suitable, overall or a row basis. Immediately seal soil surface by lightly compacting with roller or water. Do not plant any crop while any odor remains in the soil. If in doubt, aerate soil by cultivating a few days before planting. Restricted use. |
| Telone C-17 | dichloropropene + chloropicrin | F, Fum | | Restricted use. Preplant nematicide and soilborne fungicide. |
| Temik | aldicarb | I, Nem, S | | Discontinued. |
| Tenet | <i>Trichoderma asperellum</i> and <i>Trichoderma gamsii</i> | F, P | BM02 | For control of soilborne pathogens in various fruits, nuts, vegetables, field, ornamental crops, and turf. O |
| Terraclor | PCNB | B, F, P | 14 | Soil fungicide and seed treatment. Controls many soil fungi, storage rots, damping-off, and smut. |
| TerraCyte | peroxide | B, D | | Discontinued. |
| TerraCyte Pro | sodium carbonate peroxyhydrate | E | | Discontinued. |
| Terraguard | triflumizole | B-N, C, F, Ls, P | 3 | For ornamental disease problems such as powdery mildew. |
| Terranil | chlorothalonil | B, F, P | M5 | Discontinued. |
| Terrazole | etridiazole | F, N | 14 | Soil drench ornamental fungicide to control <i>Pythium</i> and <i>Phytophthora</i> . |
| Terr-o-cide | methyl bromide | | | Discontinued name. Now called Terr-o-gas. |
| Terr-O-Gas | methy bromide + chloropicrin | Bact, F, Fum, I, Nem | | Soil fumigant. Restricted-use material. |
| Tersan LSR | maneb | | | Discontinued. |
| Tersan SP | chloroneb | | | Discontinued. |
| Tersan 1991 | benomyl | | | Discontinued. |
| Tesaris | fluxapyroxad | B, F, P, C | 7 | Stand-alone product for many crops. |
| tetraconazole | Mettle | B-N, C, F, Ls, P | 3 | Label starting out in grapes. |
| Tetrasul | lime sulfur | B, E, F, I | | Discontinued. |
| Tetrathiocarbonate | Enzone | B, Fum, Nem, V | | Discontinued. Breaks down to carbon disulfide in the soil and acts as a fumigant |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|--------------------------|---|----------------------|--------------------|--|
| Theia | <i>Bacillus subtilis</i> strain AFS032321 | A, B-N, F | BM02 | Activity on powdery mildews but label has typical broad list of crops and pathogens. Research on cherry found that FRAC group 3 fungicides can be synergistic (Cevya) or antagonistic (Inspire) when mixed with Theia. |
| thiabendazole | Mertect 340-F, Arbotect 20-S, LSP Flowable Fungicide | F, P, S | 1 | A fungicide, controls many storage-rot fungi and leaf-spotting diseases. |
| Thiolux | sulfur | F, I, P, V | | Effectively controls a variety of plant diseases, especially powdery mildew. Do not use with oils. |
| thiophanate | Bromosan, Spot Klean | | | Discontinued. |
| thiophanate-methyl | Cleary's 3336, TOPS, Topsin M, Cavalier, OHP 6672, T-Methyl | B, F, P, S | 1 | Activity like benomyl's: the plant converts both to carbendazim, which is the active fungicidal compound. Fungal resistance common and stable. |
| thiram | Spotrete, Thiram Granuflo, Defiant | B, F, P | M3 | Fungicide, seed protectant, animal repellent. As seed protectant, reduces losses from seed decay, damping-off, and seedling blights caused by many seedborne and soilborne organisms. |
| Thiosperse | sulfur | F, I, P, V | M2 | Discontinued. |
| Thynon | dithianon | | | Discontinued. |
| Tigris Azoxy | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Tilt | propiconazole | B-N, C, F, Ls, P | 3 | Labeled for many crops. |
| Timber Fume | chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Fumigant to control decay in wood. |
| T-Methyl | thiophanate-methyl | B, F, P, S | 1 | Converted in the plant to carbendazim, which is the active fungicidal compound. |
| TNC Biological Fungicide | Neem Oil + caprylic acid | E, F, I, N, P | NC | Discontinued name. |
| Toledo | tebuconazole | B-N, C, F, Ls, P | 3 | For rust and powdery mildew control in grasses grown for seed in the PNW. |
| Topaz | propiconazole | B-N, C, F, Ls, P | 3 | Another generic for this popular material. |
| Topguard | flutriafol | B-N, C, F, Ls, P | 3 | Labeled for grapes, pome fruits, stone fruits, and hop. Most systemic of the DMT's. |
| Topguard EQ | flutriafol + azoxystrobin | B-N, C, F, | 3 + 11 Ls, P | Combination package of 2 fungicides. |
| Tops | thiophanate-methyl | B, F, P, S | 1 | Potato seed treatment. |
| TopShield | <i>Trichoderma harzianum</i> | F, P | | Discontinued. |
| Topsin M | thiophanate-methyl | B, F, P, S | 1 | Converted in the plant to carbendazim, which is the active fungicidal compound. |
| Tops-MZ | thiophanate-methyl + mancozeb | B, F, P, S | 1 + M3 | Potato seed treatment. |
| Torino | cyflufenamid | F, P | U6 | For powdery mildew on a few fruit, hop, and vegetable crops. |
| Torque | tebuconazole | B-N, C, F, Ls, P | 3 | One of many generics. |
| Touché | vinclozolin | F, Ls, N, P | | Discontinued. |
| Tourney | metconazole | B-N, C, F, Ls, P | 3 | Turf and ornamental label. |
| TPTH | Super Tin | F, N, P | 30 | Used for early and late blight of potato. Restricted use. |
| Trevo | azoxystrobin | B, F, Ls, P | 11 | Effective against a large number of fungi including powdery and downy mildews. |
| Triact | neem oil | E, F, N, P | NC | Used as a fungicide on powdery mildews. Solidifies at 40°F. O |
| triadimefon | Strike, Bayleton (Armada, Strike Plus, Trigo) | B-N, C, F, Ls, P | 3 | Controls powdery mildew and rust diseases on many crops. |
| triadimenol | Baytan | F, S | 3 | Seed treatment for smuts, rusts, and powdery mildews. |
| Triatum-P | <i>Trichoderma harzianum</i> Rifai strain KRL-AG2 | F, P | BM02 | Biological fungicide. |
| Triathlon BA | <i>Bacillus amyloliquefaciens</i> strain D747 | F, P | BM02 | Biological for suppression of a broad spectrum of diseases on agricultural crops, ornamental and nursery plants, and turfgrass. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|---|----------------------|--------------------|---|
| Tri-Clor | chloropicrin I, Nem | Bact, F, Fum, | | Restricted-use material. Soil fumigant. |
| Tri-Con | methy bromide + chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| trifloxystrobin | Flint, Compass, (Armada, Strike Plus, Trigo) | B, F, Ls, P | 11 | A strobilurin compound effective against many fungi. |
| triflumizole | Terraguard, Procure Trionic | B-N, C, F, Ls, P | 3 | Fungicide used on ornamentals, pears, and grapes for powdery mildew and scab control. |
| triforine | Funginex, Cela W-524, Triforine, Saprol | B-N, F, Ls, P | 3 | For use against powdery mildew, scab, rust, and other diseases. Ag uses cancelled. |
| Tri-Form | dichloropropene + chloropicrin | Bact, F, Fum, I, Nem | | Restricted-use material. Soil fumigant. |
| Trigo | triadimefon + trifloxystrobin | B-N, C, F, Ls, P | 3 + 11 | Discontinued. |
| Trinity | triticonazole | B-N, C, F, Ls, P | 3 | Fungicide for turf diseases. TR or total release formulation for greenhouse use. |
| Trilogy | neem oil | E, F, N, P, I | NC | Discontinued. |
| Trionic | triflumizole | B-N, C, F, Ls, P | 3 | Generic Procure for a few fruits and vegetables. |
| triticonazole | Charter, Trinity (Pillar) | B-N, C, F, Ls, P | 3 | Fungicide for turf diseases and wheat and barley seed treatment. |
| Trivapro | benzovindiflupyr + azoxystrobin + propiconazole | B, F, P | 3 + 7 + 11 | Broad-spectrum fungicide for cereals, corn, and soybean. |
| Truban | etridiazole | F | 14 | Used for damping-off and root rot caused by oomycetes. |
| Turficide | PCNB | B, F, P | 14 | Turf label to control a few diseases. |
| Tutane | 2-aminobutane | | | Discontinued. |
| T-22 | <i>Trichoderma harzianum</i> | F, P | BM02 | Discontinued. |
| Ultra-Shield | chlorine dioxide | B, D | -- | Discontinued. |
| Unicorn | tebuconazole + sulfur | B-N, C, F | 3 + M2 | Discontinued name. |
| Uvasys | sodium metabisulfite | B, F, Fum, V | M2 | Discontinued. |
| V-10208 | ethaboxam | C, Ls, N, P, S | 22 | Discontinued. |
| Vacciplant | laminarin | °A | P4 | Wide range of crops it can be used on. Better activity on annuals than perennials. |
| Vacres | potassium bicarbonate | E, F | NC | Oregon label for fruit, nut, hop, herb, vegetable, turf, ornamental, and field crops. |
| Vanguard | cyprodinil | C, Fs, Ls, N, P | 9 | Good activity on <i>Botrytis</i> and <i>Monilinia</i> . Fair on apple scab. Resistance could be a problem if overused. |
| Vapam HL | metam-sodium | E, F, Fum, I, Nem | | Restricted use. Soil disinfectant for soil fungi, nematodes, soil insects (wireworms, centipedes), and weeds. Field area or row application by soil injection or sprinkler injection. Treat seed, plant beds, and potting soil by different methods. Penetration and effectiveness is improved by water seal. |
| VeggieTurbo | Polyoxin D | F | 19 | Discontinued. |
| Velista | penthiopyrad | B, F, P | 7 | Turf formulation for this fungicide. |
| Veltyma | mefentrifluconazole + pyraclostrobin | B-N, C, F, Ls, P. | 3+11 | Labeled for various vegetables and field crops. |
| Velum Prime | fluopyram | F, N, Nem | 7 | High rate of this fungicide is also nematicidal. Label is directed at nematodes and delivered via chemigation, drip or drench. |
| Veranda T | Polyoxin D | F | 19 | Turfgrass label. |
| Vertisan | penthiopyrad | B, F, P | 7 | Broad-spectrum fungicide for many diseases in field crops. |
| Vibrance | sedaxane | B, F, P | 7 | Seed treatment labeled for cereals and field crops for seed decay and seedling diseases. |
| Victus | <i>Pseudomonas fluorescens</i> | Bact | NC | Biological to control bacterial blotch in mushroom production. |
| vinclozolin | Ronilan, Ornalin, Touché, Vorlan | F, Ls, N, P | 2 | Discontinued. |
| Vintage | fenarimol | B-N, C, F, Ls | 3 | Discontinued. |
| Vintec | <i>Trichoderma atroviride</i> strain SC1 | F, P | BM02 | Pruning wound treatment for grapes and stone fruit. O |
| Vitaflo 280 | carboxin + thiram | B, F, P | 7 + M3 | Seed treatment for grass seed for export. |

| Common or Trade Name | Trade or Common Name | Action* | Fungicide Group#** | Use |
|----------------------|--|------------------|--------------------|---|
| Vital | phosphorous acid | A, Fs, N, P, S | P7 | Discontinued. |
| Vitiseal | paint | P | NC | Paint for protection of pruning wounds. |
| Vitavax | carboxin | F, Ls, N | 7 | Seed treatment for small grains to control <i>Rhizoctonia</i> . |
| Vivando | metrafenone | F, Ls, N, P | 50 | Active on fruit powdery mildews. |
| Vorlan | vinclozolin | F, Ls, N, P | | Discontinued. |
| Vorlex | methyl isothicyanate | | | Discontinued. |
| Vydate | oxamyl | I, Nem | | For certain insects, mites, and/or nematodes. Restricted use. |
| Wakil | fludioxonil, metalaxyl-M, and cymoxanil | B, F, Ls, P | 12 + 4 + 27 | Seed treatment combination for pea seed crops. |
| Warhammer | chitosan | A, B | NC | A chitosan formulation that is an activator of host defense responses in plants. May be applied to all crops and has no preharvest interval or reentry interval requirements. Has been touted as a nematicide and bactericide. Activity has not been stellar. |
| Willowood Azoxy | azoxystrobin | B-N, C, F, Ls, P | 11 | Discontinued name. |
| Wingman | mancozeb | B, F, P | M3 | Discontinued name. |
| WRC-AP-1 | <i>Gliocladium virens</i> | F, P | NC | Discontinued name, see SoilGard. |
| Xeroton-3 | hydrogen peroxide + peroxyacetic acid + octanoic acid | D | -- | Lots of uses but expect low residual. |
| Xzemplar | fluxapyroxad | B, C, F, P | 7 | Turfgrass label. Does not kill algae. |
| Zampro | ametoctradin + dimethomorph | F, P | 45 + 40 | Fungicide mixture for diseases caused by oomycetes in vegetables, hop, and grapes. |
| Zayin | geraniol | B, F, I | | Primary component of citronella oil and is labeled for several diseases. |
| Zelto | Heat-killed <i>Burkholderia</i> spp. strain A396 cells | I, N | BM02 | Biological insecticide with nematicide properties. |
| ZeroTol | peroxide | B, D | | Disinfectant with very short residual activity. Registered like fungicides but do not use it that way. |
| Zen-O-Spore | <i>Ulocladium oudemansii</i> strain U3 | F, N, P | NC | Discontinued. |
| zineb | Zineb | B, F, P | | Discontinued. |
| Zio | <i>Pseudomonas chlororaphis</i> strain AFS009 | F | BM02 | Discontinued. |
| ziram | Ziram, Ziram Granuflo | B, F, P | M3 | Used extensively to control shothole, brown rot, and peach leaf curl. The most stable of the metallic dithiocarbamates; nonphytotoxic except for zinc-sensitive plants. Does not build up in soil and is rapidly decomposed by weathering. |
| Ziram Granuflo | ziram | B, F, P | M3 | Label for many diseases on many crops. |
| Zonix | rhamnolipid biosurfactant | F | NC | Wetting agent to help lyse zoospores. |
| Zonix Biofungicide | rhamnolipid biosurfactant | E, F | NC | A surfactant derived from <i>Pseudomonas aeruginosa</i> that actively lyses zoospores. Good use in hydroponic systems and may have several other uses. Several general crops on the label. |
| Zyban | thiophanate-methyl + mancozeb | B, F, P, S | 1 + M3 | Discontinued. |