

**COMMON NAMES AND TRADE NAMES OF INSECTICIDES AND MITICIDES**

These chemicals are registered for use on woody ornamentals (trees and shrubs). Legal use of certain materials is restricted for use by only licensed commercial growers and professional applicators. We do not have effectiveness data for all the insecticides and miticides listed below and have decided to arrange them in alphabetical order. Thus, the insecticides and miticides in this publication are not listed in order of effectiveness. Please refer to individual footnotes below.<sup>1,2</sup>

Common name	Trade name (formulation)
abamectin <sup>4</sup> acephate <sup>3,18</sup>	Avid 0.15EC <sup>4</sup> Acephate Pro 75 <sup>3,18</sup> , Acephate Pro 75 WSP <sup>3,18</sup> , Orthene (Turf, Tree, & Ornamental Spray 97) <sup>3,18</sup>
acetamiprid <sup>3</sup> avermectin B <sub>1</sub> azadirachtin <sup>4</sup>	TriStar 70 WSP Insecticide <sup>3</sup> Abacide Azatin (XL, XL Plus), Ornazin (3% EC) <sup>4</sup>
<i>Bacillus thuringiensis</i> <sup>3</sup> <i>Beauveria bassiana</i> bifenazate bifenthrin <sup>4</sup>	Biobit, Crymax, Deliver, DiPel, Foray, Javelin, etc. <sup>3</sup> BotaniGard (ES, 22WP) Floramite, Floramite SC Bifenthrin Pro Multi-Insecticide <sup>4</sup> , Onyx Insecticide <sup>4</sup> , Talstar (Lawn & Tree Flowable <sup>4</sup> , F <sup>4</sup> , GC Flowable <sup>4</sup> , Nursery Flowable <sup>4</sup> , Nursery Granular <sup>4</sup> , TalstarOne Multi-Insecticide <sup>4</sup> )
buprofezin <sup>4</sup> carbaryl <sup>3,4,6</sup> carbofuran <sup>4,11</sup> chlorpyrifos <sup>3,4,12</sup>	Talus Insect Growth Regulator <sup>4</sup> Carbaryl 4L <sup>3,4,6</sup> , Sevin (SL, 80 WSP) <sup>3,4,6</sup> Furadan 4F <sup>4,11</sup> Chlorpyrifos Pro 2 <sup>4</sup> , Chlorpyrifos Pro 4 <sup>4</sup> , 12 DuraGuard ME <sup>4</sup> , Dursban (50W) <sup>3,4</sup>
clofentezine <sup>4</sup> cryolite cyfluthrin <sup>3,4</sup> cyfluthrin and imidacloprid <sup>15</sup> cyromazine deltamethrin <sup>4</sup> dicofol <sup>4</sup> dicrotophos <sup>4</sup> diflubenzuron <sup>4</sup> dimethoate <sup>4,17</sup> dinotefuran disulfoton <sup>4</sup> etoxazole esfenvalerate <sup>4,19</sup> fenbutatin-oxide <sup>4</sup> fenpyroximate fenpropathrin <sup>4</sup> hexythiazox <sup>4</sup> horticultural spray oil <sup>3</sup> hydrophobic extract of neem oil <sup>4</sup> imidacloprid <sup>3,4,8,9,10</sup>	Ovation SC <sup>4</sup> Kryocide Tempo (20 WP, SC Ultra, Ultra WP, Ultra WSP) <sup>3,4</sup> , Decathlon 20 WP <sup>4</sup> Discus Nursery Insecticide <sup>15</sup> Citation DeltaGard T&O 5SC <sup>4</sup> , Suspend SC <sup>4</sup> Kelthane 50WSP <sup>4</sup> Inject-A-Cide B <sup>4</sup> Dimilin (25W,4L) <sup>4</sup> Dimethoate 4EC <sup>4,17</sup> Safari 20 SG Di-Syston 15% G <sup>4</sup> TetraSan 5 WDG Asana XL <sup>4,19</sup> Vendex 50WP-T/N/O <sup>4</sup> Akari 5SC Tame <sup>4</sup> Hexygon Ovicide/Miticide <sup>4</sup> Damoil, Sunspray Ultra Fine Spray Oil, Purespray Spray Oil, etc. <sup>3</sup> Triact 70 <sup>4</sup> , Triact 70 EC <sup>4</sup> Marathon (1% G <sup>9</sup> , 60 WP <sup>10</sup> ), Marathon II <sup>20</sup> , Merit (2, 75 WP, 75 WSP, 2.5 G) <sup>3,8</sup> , Imicide <sup>4</sup>
insecticidal soap <sup>3,7</sup> lambda-cyhalothrin <sup>4</sup>	M-Pede <sup>3,7</sup> Scimitar (CS, WP, GC <sup>4</sup> ), Battle GC <sup>4</sup> , Demand CS <sup>4</sup> , Warrior with Zeon Technology <sup>4</sup>
malathion <sup>3,13</sup> methidathion <sup>4,14</sup> naled <sup>4</sup> novaluron <sup>16</sup> oxydemeton-methyl <sup>4</sup> permethrin <sup>4,5</sup> phosmet <sup>4</sup> pymetrozine <sup>4</sup> pyrethrins and piperonyl butoxide pyridaben <sup>4</sup> pyriproxyfen spinosad spiromesifen tau-fluvalinate tebufenozide thiamethoxam <sup>4</sup> trichlorfon <sup>4</sup>	5 lbs Malathion Spray <sup>3,13</sup> Supracide (2E, 25-W) <sup>4,14</sup> Dibrom 8 <sup>4</sup> Pedestal <sup>16</sup> Metasystox-R <sup>4</sup> , Harpoon <sup>4</sup> Astro Insecticide, Permethrin Pro, Pounce (3.2 EC, 25WP, WSB) <sup>4,5</sup> Imidan 70-WP <sup>4</sup> Endeavor <sup>4</sup> Pyrenone Crop Spray Sanmite <sup>4</sup> Distance Insect Growth Regulator Conserve SC Forbid, Judo <sup>20</sup> Mavrik Aquaflow Mimic 2LV Flagship 25WG <sup>4</sup> Dylox 80 T&O <sup>4</sup>

**Notes**

1. Refer to individual pesticide formulations for dosage recommendations, host plant clearance, pest clearance, phytotoxicity information, worker protection standard, restricted-entry interval, safety precautions, and method of application.
2. Changes in registration status may occur at any time. It is the responsibility of the applicator to always read the specimen label and apply the product according to label directions. Due to constantly changing labels and product registration, some of the suggestions given in this publication may no longer be legal by the time you read them. If any information in these suggestions disagrees with the label, the label must be followed and the suggestions here must be disregarded.
3. Certain formulations of this material may be available to the homeowner, whereas others are restricted for application by only commercial growers and professional restricted-use licensed applicators.
4. Legal use of these formulations is restricted for application only by commercial growers or professional restricted use licensed applicators. Apply all materials according to label directions.
5. For application to field-grown ornamental nursery stock (field grown).
6. Do not use on Boston ivy, Virginia creeper, and maidenhair fern as injury may result. Carbaryl may also injure Virginia and sand pines.
7. Do not apply to very sensitive plants such as horse chestnut, Japanese maple, or mountain-ash, and others listed on the specimen label. River birch, redbud, ornamental ivy, and some other plants listed on the label may be sensitive to this product. Flowers of azalea, begonia, dahlia, impatiens, marigold, rose, and other plants listed on the label may be injured when sprayed with this product. Potential for plant injury increases when this product is used when plants are stressed, such as under hot (> 90°F), humid, and/or drought conditions. Application of this product may result in removal of the glaucous bloom from spruces.
8. Not for use in commercial greenhouses and nurseries or on sod farms, research plots, or grass grown for seed.
9. For systemic insect control in field-grown nursery stock; and indoor and outdoor ornamentals grown in flats, benches, beds and containers.
10. For use only on greenhouse and nursery ornamental plants using soil drenches, microirrigation, drip irrigation, overhead irrigation, ebb and flood irrigation, or hand-held or motorized calibrated irrigation equipment.
11. For use in managing root weevil larvae in container-grown ornamentals.
12. Some varieties of azaleas, camellias, poinsettias, rose bushes, or variegated ivy have shown varying degrees of phytotoxicity following treatment.
13. Injury may occur on ferns, hickory, viburnum, lantana, crassula, and canareti juniper following the use of Prentox 5 lbs Malathion Spray. Slight injury has also been reported on Boston, Pteris, and maidenhair ferns, petunias, small-leaf spirea, white pine, and maples. Under extreme heat, drought, and disease conditions some of these formulations may cause slight damage to elms.
14. For use on nursery stock (woody ornamental or herbaceous plants commercially grown for transplanting).
15. For broad-spectrum foliar and systemic insect control on ornamentals, nonbearing fruit and nut trees, in in-field and container nurseries.
16. For control of insect pests on container container-grown ornamentals in greenhouses, shadehouses, and outdoor nurseries.
17. Some species such as river birch, *Prunus*, ornamental cherry, hawthorn, Japanese lace maple, and aspens may show toxic effects at label rates. Do not use on bearing fruit trees. Do not apply to huckleberry, balm of Gilead, cottonwood, Lombardy poplar, and *Viburnum suspensum*.
18. Specialty uses for the crop: Christmas tree plantings, conifer plantations, conifer seed orchards, forest tree nurseries.
19. For foliar and systemic insect control on ornamentals, fruit and nut trees, and vegetable plants in greenhouses, nurseries, and interior plantscapes.
20. Apply to shrubs; trees (including nonbearing fruit trees); flowers and foliage plants in greenhouses and shade houses; and plants grown in field and container nurseries.