










Photo and name of product	 Merit 75WP	 Merit 75WSP	 Zenith 75WSP	 Lada 2F	 Advanced Tree & Shrub Protect & Feed	 Advanced Tree & Shrub Protect & Feed	 CoreTect Tablets	 Safari 20SG	 Transtect 70WSP
Producer	Bayer	Bayer	Prokoz/Bayer	Rotam	Bayer	Bayer	Bayer	Valent	Valent/ Rainbow Tree Care
% active ingredient	75% Imidacloprid	75% Imidacloprid	75% Imidacloprid	21.4% Imidacloprid	0.74% Imidacloprid 0.37% Clothianidin	0.55% Imidacloprid 0.275% Clothianidin	20% Imidacloprid	20% Dioneofuran	70% Dioneofuran
Formulation	Wettable powder	Water soluble packet	Water soluble packet	Flowable liquid	Flowable liquid	Soluble granules	Slow release tablets	Soluble granules	Water soluble packet
Application method	Soil drench Soil injection	Soil drench Soil injection	Soil drench Soil injection	Soil drench Soil injection	Soil drench	Apply soil surface and water in	Place 2 to 5 inches into soil	Soil drench Soil injection Bark spray	Soil drench Soil injection Bark spray
Max per acre per year	8.6 oz (0.4 lbs of active ingredient)	8.6 oz (0.4 lbs of active ingredient)	8.6 oz (0.4 lbs of active ingredient)	25.6 fluid oz (0.4 lbs. active ingredient)	0.4 lbs of Clothianidin	0.4 lbs of Clothianidin	450 tablets (0.5 lbs of active ingredient)	2.7 lbs (0.54 lbs of active ingredient)	0.77 lbs (0.54 lbs active ingredient)
Volume	2 oz	6.4 oz (4 x 1.6 oz pkts)	6.4 oz (4 x 1.6 oz pkts)	Quart or gallon	Quart or gallon	4 lbs or 10 lbs	250 tablets	12 oz or 3 lbs	1.2 oz (2 x 0.6 oz pkts) or 12 oz (20 x 0.6 oz pkts)
Avg. cost/ container	\$38	\$110	\$34	\$40 for quart \$70 for gallon	\$20 for quart \$70 for gallon	\$25 for 4 lbs \$53 for 10 lbs	\$104	\$106 for 12 oz \$344 for 3 lbs	\$65 for 2 \$326 for 20
Purchase locally at	Southern Ag Southern States	Southern Ag	Southern Ag	Southern Ag	Several local hardware stores Southern States	Several local hardware stores	Southern Ag	Southern Ag	Only available online through Rainbow Tree Care
Cost/inch DBH	Low dose: \$0.63 High dose: \$1.27	Low dose: \$0.57 High dose: \$1.14	Low dose: \$0.19 High dose: \$0.37	Quart: \$0.12 to \$0.24 Gallon: \$0.05 to \$0.11	Quart: \$1.97 Gallon: \$1.72	4 lbs: \$2.45 10 lbs: \$2.08	Low dose: \$0.83 High dose: \$1.25	\$0.93 for trees <24 in. \$1.85 for trees >24 in. for lowest dose	Low dose: \$0.96 High dose: \$3.26
Approximate inches per container	30 – 60 in.	96 – 192 in.	96 – 192 in.	Quart: 160 – 320 in. Gallon: 640 – 1280 in.	Quart: 10 in. Gallon: 40 in.	4 lbs: 10 in. 10 lbs: 25 in.	83 – 125 in.	12 oz: 57 – 114 in. 3 lbs: 228 – 457 in.	1.2 oz: 10 – 34 in. 12 oz: 100 – 340 in.
Expected duration	4 - 7+ years	4 - 7+ years	4 - 7+ years	4 - 7+ years	4 - 7+ years Label: at least 12 months	4 - 7+ years Label: at least 12 months	4 - 7+ years	1 - 2+ years	1 - 2+ years
Other notes	Original name brand imidacloprid product	Name brand product Low dose: 1 pkt/48 in. DBH High does: 1 pkt/24 in. DBH	Generic for Merit 75WSP, other names include: Criterion, Malice, Adonis, Quali-Pro, Mallet	Generic for Merit 2F, other names include: Quali-Pro, ImidaStar, Prime Source, Adonis	Not to be confused with Bayer Complete Insect Killer which is for turf, not trees Includes fertilizer	Includes fertilizer	Low dose: 2 tabs/in. DBH High dose: 3 tabs/in. DBH Includes fertilizer	Good for faster acting treatment on trees with heavy adelgid and scale infestations	Low dose: 1 packet/17 in. DBH High dose: 1 packet/5 in. DBH

Various websites sell many of these products including: Tampa Agricultural Products, Keystone Pest Solutions, PestWarehouse.com, DoMyOwnPestControl.com, PestMall.com, Seed World, Tree Geek, Forestry Distributing. Products may be available at other stores not mentioned above and prices may vary. The use of brand names and any mention of commercial products or services in this publication does not imply endorsement nor discrimination against similar products or services not mentioned by Hemlock Restoration Initiative or NCDA&CS.

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