



Save Georgia's Hemlocks

Imidacloprid Dosing Instructions

NOTE: The information provided here is based on product labels and advice from experts, including various public land managers, product representatives, and the University of Georgia. It is the user's responsibility to read and follow the label instructions when using pesticide materials.

MIXING – First, judge whether the soil moisture level is moderate to wet or dry to normal. **If you're in doubt about soil moisture level, you should default to the "Dry to Normal" instructions.** Then, depending on the product strength and formulation you're using, mix in the proportions shown in this first chart.

MIXING CHART		
Amount of Imidacloprid Product	Amount of Water for Moderate to Wet Soil	Amount of Water for Dry to Normal Soil
75% WSP or WSB: 1.6 oz packet Put entire packet into water; don't open packet.	12 oz water Each fl oz of this mix contains 3 grams of active ingredient.	24 oz water Each fl oz of this mix contains 1.5 grams of active ingredient.
75% wettable powder: .7 teaspoon of powder	.25 oz water / inch DBH	.5 oz water / inch DBH
21.4% liquid: .2 oz of chemical	.2 oz water / inch DBH	.4 oz water / inch DBH

Imidacloprid mixing and application rates provided by Mark Dalusky, UGA researcher. Do not apply more than 182 grams of active ingredient per acre. Do not apply during prolonged drought or when soil is saturated or frozen.

APPLYING – Make one injection hole for each inch of trunk diameter at breast height and space the holes evenly around the tree about 12-18" out from the base. Minimum number of holes should be 4.

Depending on the soil moisture level and trunk diameter, use this second chart to determine how many times to pump the injector handle to dispense the correct amount of treatment product into each injection hole. This chart applies to all of the above formulations, but be sure to **stay in the same moisture level column as above.**

APPLICATION CHART				
Inches in Diameter (DBH)	Dosage per Inch DBH for Moderate to Wet Soil	Dosage per Inch DBH for Dry to Normal Soil	Active Ingredient per Inch DBH	Cost per Inch DBH for Do-It-Yourself Option
1-11	1 pump / hole (1/6 oz solution)	2 pumps / hole (1/3 oz solution)	.5 gram	17 cents
12-18	1.5* pumps / hole (1/4 oz solution)	3 pumps / hole (1/2 oz solution)	.75 gram	26 cents
19-22	2 pumps / hole (1/3 oz solution)	4 pumps / hole (2/3 oz solution)	1 gram	35 cents
>22 should be treated two consecutive years.	3 pumps / hole (1/2 oz solution)	6 pumps / hole (1 oz solution)	1.5 gram x 2 years	52 cents x 2 years

*To get the equivalent of 1.5 pumps per hole, do 1 pump in half the holes and 2 pumps in the other half, distributing these two levels evenly around the tree.

ESTIMATING COST – The cost per inch shown in the chart above is an estimate based on the amount of active ingredient needed per inch for each diameter range and a price of \$50 (including tax) for a 4-pack of Imidacloprid 75WSP in the 1.6-ounce packaging. For more information, please call the Hemlock Help LineSM 706-429-8010 or visit www.savegeorgiashemlocks.org.