

# Applying Low Concentration Imidacloprid Liquids to Small Saplings by Soil Drench

There are several low concentration liquid products on the market, some made by Bayer (such as Bayer Advanced Tree & Shrub) and some by other manufacturers. However, they can be used effectively on very small trees (potted saplings in 1 – 3 gallon pots and planted saplings up to 6 – 8 feet tall) for a protection period of about 1 year.

Percentage of Active Ingredient (Imidacloprid)	Approx. DIAMETER INCHES That Can Be Treated with 1 Gallon of Product	Amount of Product to Use for <b>POTTED</b> Saplings	Amount of Product to Use for Saplings <b>GROWING IN THE GROUND</b>
0.74%	40	2 tsp. product per gallon of pot size	3 oz. product per diameter inch
1.47%	80	1 tsp. product per gallon of pot size	1.5 oz. product per diameter inch
2.94%	160	1/2 tsp. product per gallon of pot size	0.75 oz. product per diameter inch

Note: There are 3 teaspoons to a tablespoon and 6 teaspoons to an ounce.

**For potted saplings**, pour the required amount of product into sufficient water to wet the potting soil thoroughly. Between 8 and 16 ounces of water per gallon of pot size is usually adequate.

**For saplings growing in the ground**, follow these steps once a year.

Step 1. Measure the trunk diameter at breast height. This is called “inches dbh.”

Step 2. Rake back any leaf litter, needle duff or debris from the base of the tree so that bare soil is accessible. At a distance of **no more than 12 inches from the base of the tree**, use a skinny piece of rebar to make one hole in the soil for each inch of trunk diameter. The holes should be evenly spaced around the tree and **no deeper than 4 inches**.

Step 3. Based on the tree’s diameter, mix the specified amount of product with ½ to 1 gallon of water and pour it gently into the holes and around the base of the tree. Adding the water makes it easier to distribute the treatment material evenly and also gives the tree a bit of moisture to start the uptake process.

Step 4. When you’re finished treating each tree, mark it in some way to indicate it’s been treated. Give the treatment time to dry before children or pets are allowed in the area, usually about an hour.

Make this application once a year to continue the HWA protection.

**CALL THE HEMLOCK HELP LINE 706-429-8010 WITH ANY QUESTIONS.**



Save Georgia’s Hemlocks  
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