

Applying Low Concentration Liquids to Small Saplings by Soil Drench

There are several similar liquid products on the market, some made by Bayer (such as Bayer Advanced Tree & Shrub) and some by other manufacturers. They contain very low concentrations of Imidacloprid but can be used effectively on very small trees (potted saplings in 1-gallon pots up to planted saplings 6 feet tall) for a protection period of up to 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 POTTED Saplings	Amount of UNDILUTED Product to Use for Saplings GROWING IN THE GROUND
0.74%	40	1 tsp. product + 1/2 qt. water per gallon of pot size	3 oz. per diameter inch
1.47%	80	1/2 tsp. product + 1/2 qt. water per gallon of pot size	1.5 oz. per diameter inch
2.94%	160	1/4 tsp. product + 1/2 qt. water per gallon of pot size	0.75 oz. per diameter inch

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

For potted saplings, apply the product mixed with water as indicated above once a year.

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

Step 1. Measure the trunk diameter of the tree 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 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**.

Note: For **trees that are smaller than 4 inches** in diameter, make a minimum of 4 shallow holes around the tree, one in each quadrant of the root zone. These holes should be no deeper than 2 inches and as close to the tree as possible.

Step 3. After pouring the undiluted product into the holes, pour an extra gallon of water around the tree to help it start absorbing the treatment product, but do this very gently so as not to wash the treatment material out of the root zone.

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

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