

# Applying Imidacloprid 2F or 2L (21.4 or 22.6%) by EZ-Ject Soil Injector

One gallon of 2F/2L concentrate treats an average of 1,208 diameter inches, and the EZ-Ject injector holds up to 1 gallon of treatment mixture. **If you have the model that dispenses 1/4 ounce of fluid per pump**, follow the instructions below. (See next page for 1/2 ounce output mixing/dosing instructions.)

**Step 1.** 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 "Moderate to Wet Soil" instructions when using a EZ-Ject soil injector.

**Step 2.** To make a master batch of treatment mixture, follow the proportions of water and ounces of product shown in the Mixing chart below. **Warm water** works best. Put the water in the mixing container first; then add chemical and shake well until all is dissolved. To load the tank, pour through a **funnel and paint filter** to eliminate any undissolved material.

MIXING THE MASTER BATCH		
Amount of Product	Amount of Water for Moderate to Wet Soil	Amount of Water for Dry to Normal Soil
1 oz	2.5 oz	6 oz
10 oz	25 oz	54 oz
18 oz	45 oz	108 oz
30 oz	75 oz	---
36 oz	90 oz	---

**Step 3.** Measure the trunk diameter of the tree at breast height. This is called "inches dbh."

**Step 4.** Rake back any leaf litter, 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**, make one injector hole in the soil for each inch of trunk diameter. The holes should be evenly spaced around the tree and **no deeper than 2-4 inches**.

Note: For trees smaller than 4 inches in diameter, make a minimum of 4 shallow holes around the tree.

**Step 5.** Based on the trunk diameter, pump the injector handle the number of times shown in the Dosing chart below. **Be sure to stay in the same moisture level column as you used for mixing.**

DOSING		
Inches (DBH)	Pumps per Inch DBH for Moderate to Wet Soil	Pumps per Inch DBH for Dry to Normal Soil
1-11	1 pump / hole	2 pumps / hole
12-18	1.5* pumps / hole	3 pumps / hole
19-22	2 pumps / hole	4 pumps / hole
>22 should be treated 2 years in a row.	3 pumps / hole	6 pumps / hole

\* 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.

**Step 6.** When you're finished treating each tree, mark it to indicate it's been treated. When finished working, triple rinse injector as described in "Introduction to Treating Hemlocks."

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



Save Georgia's Hemlocks • 37 Woody Bend • Dahlonega, GA. 30533  
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[www.SaveGeorgiasHemlocks.org](http://www.SaveGeorgiasHemlocks.org)

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MIXING THE MASTER BATCH		
Amount of Product	Amount of Water for Moderate to Wet Soil	Amount of Water for Dry to Normal Soil
1 oz	6 oz	13 oz
9 oz	54 oz	117 oz
18 oz	108 oz	---

**Step 3.** Measure the trunk diameter of the tree at breast height. This is called "inches dbh."

**Step 4.** Rake back any leaf litter, 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**, make one injector hole in the soil for each inch of trunk diameter. The holes should be evenly spaced around the tree and **no deeper than 2-4 inches**.

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