

Applying Safari 20 SG by Kioritz Soil Injector

The Kioritz soil injector holds up to 96 ounces of fluid and dispenses 1/6 ounce of fluid per stroke when the calibration ring is set on the red number 5.

Use the **specialty marked plastic measuring cup** that comes with your purchase of Safari to measure the **required amount of product** and a regular measuring cup to measure the amount of water. Note that the numbers printed on the special measuring cup refer to the *weight* of Safari 20 SG in ounces and are not the same as in a regular measuring cup.

Step 1. To make a master batch of treatment mixture, put the required amount of water in a mixing container first. **Warm water** works best. Then add the corresponding amount of product shown in the Mixing chart below and shake well.

MIXING		
Amount of Product	Amount of Water	The mixing ratio for Kioritz soil injection is 14 ounces of product per quart of water. In this mixture there are 2.4 grams of active ingredient per ounce of solution.
12 ounces	27 fluid ounces	
14 ounces	32 fluid ounces (1 qt)	
28 ounces	64 fluid ounces (2 qts)	
42 ounces	96 fluid ounces (3 qts)	

Step 2. Measure the trunk diameter of the tree at breast height. This is called “inches dbh.”

Step 3. 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**, 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 2-3 inches**. Injecting very close to the trunk, up against the big roots, and in the sinuses between the roots helps speed absorption.

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

Step 4. Based on the trunk diameter, pump the injector handle the number of times shown in the Dosing chart below.

DOSING		
Inches (DBH)	Pumps per Inch DBH	Active Ingredient per Inch DBH
1 – 15	1.5 pumps Alternate 1 and 2 pumps around the tree.	.6 gram
16 – 19	2 pumps	.8 gram
20 – 23	2.5 pumps Alternate 2 and 3 pumps around the tree.	1 gram
24 - 27	3 pumps	1.2 grams
28 – 31	3.5 pumps Alternate 3 and 4 pumps around the tree.	1.4 grams
32 – 35	4 pumps	1.6 grams
36 – 39	4.5 pumps Alternate 4 and 5 pumps around the tree.	1.8 grams
40 - 43	5 pumps	2 grams
44 – 47	5.5 pumps Alternate 5 and 6 pumps around the tree.	2.2 grams
48 or more	6 pumps	2.4 grams

Step 5. 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” and store it upside down.

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

