Dilution Recommendations for Alamo and Quali-Pro (*Propiconazole 14.3%*) Trunk Injection using Arborjet Equipment

STOP!!! READ AND FOLLOW ALL LABEL DIRECTIONS ON THE ALAMO or QUALI-PRO PROPICONAZOLE 14.3% FUNGICIDE LABEL

General Information

Read and follow all label directions. Wear Protective Disposable Safety Gloves and Eye Protection. Follow manufacturers label directions and precautionary use statements.

Preparation of Injection Product.
The dilution recommendations are given as a guide for use in Arborjet application equipment.
For a basic dilution rate, dilute 1 part Propiconazole 14.3% to 3 parts water. The following table provides sample tree size, dose, and dilution rates.

Example of Recommended Propiconazole 14.3% application rates used in trunk injection.

DBH (inches)	Propiconazole 14.3% Volume (mL)	Water Volume (mL)	Total Solution Volume (mL)
5	50	150	200
10	100	300	400
15	150	450	600
20	200	600	800
25	250	750	1000
30	300	900	1200
35	350	1050	1400
40	400	1200	1600

OAK WILT IN OAKS

Preventive and Therapeutic Treatment
Use 10 ml of Propiconazole 14.3% in 30 ml water per inch DBH. For very high disease pressure, 20 ml of Propiconazole 14.3% per inch DBH may be used. Refer to the Propiconazole 14.3% label for additional information on Oak Wilt control recommendations, specifically, timing of application, tree condition and treatment considerations.

LEAF DISEASES: CRABAPPLES

Preventive Treatment
Use 10 ml of Propiconazole 14.3% in 30 ml water per inch DBH. For trees less than 10" DBH, use 6 ml Propiconazole 14.3% per inch trunk diameter. Make applications to trees in full leaf and actively growing for next season's leaf disease development.

Note: Do not use fruit from treated trees for food or feed purposes.

ANTHRACNOSE: SYCAMORE

Preventive Treatment
Use 10 ml of Propiconazole 14.3% in 30 ml water per inch DBH. For trees less than 10" DBH, use 6 ml Propiconazole 14.3% per inch trunk diameter. Make applications to trees in full leaf and actively growing for next season's anthracnose development.

DUTCH ELM DISEASE IN ELM

Preventive and Therapeutic Treatment
Use 6-10 ml of Propiconazole 14.3% in 30 ml water per inch DBH. For very high disease pressure, 20 ml of Propiconazole 14.3% per inch DBH may be used. Refer to notes on the Propiconazole 14.3% label for additional information on DED control recommendations.

GENERAL APPLICATION DIRECTIONS

Tree diameter at breast height (DBH) must be measured to determine application rate, and number of injection sites. It's recommended to perform applications to actively growing trees in full leaf. Conditions that favor transpiration are optimal for injection uptake (i.e., warm soil temperatures >45F, moist, humid conditions). Transpiration in conifers is favored by humid conditions that occur early morning, overcast, rainy or on relatively cool days. Irrigate trees prior to treatment for optimal product uptake.

ARBORJET MICRO-INFUSION™ PROCEDURES

Inject into the trunk tissue immediately above the trunk flare, typically within 12" of the soil. Fully read equipment training manuals before performing Micro-infusions.

VIPER Method (uses Arborplugs™)

Use a 3/8" diameter drill bit. Drill through bark, then 5/8" deep into the xylem (sapwood). Drill bits should be clean and sharp. Set the Arborplugs™. Insert the VIPER needle, start application, and remove the VIPER needle upon completion. The Arborplug™ will remain in the tree.

STINGER Method (no Arborplugs™)

Use a 7/32" diameter drill bit. Drill through bark, then 5/8" deep into the xylem (sapwood). Push STINGER needles into holes, start application, and remove the STINGER needles upon completion. The STINGER Method requires no Arborplugs™.

Resinous Conifers (ex. Pine, Spruce)

Only VIPER Method

In resinous conifers, it's important to fill, pressurize, and prime your Tree I.V. prior to setting Arborplugs™. Set each Arborplug™ and immediately insert VIPER needle and turn valve on to apply pressure. If there is a delay between setting each Arborplug™ and inserting each VIPER needle, then the resin flow may reduce uptake speed.

Hardwoods (ex. Oak, Ash, Maple)

VIPER or STINGER Method

In hardwoods, it's recommended that you fill, pressurize, and prime your Tree I.V. prior to setting Arborplugs™. Then set all Arborplugs™, insert VIPER needles, and open all valves to begin Micro-infusion.

Monocots (ex. Palms)

VIPER or STINGER Method

Use a 7/32" diameter drill bit. Drill the hole into the vascular bundle, typically 1/3 the depth of the trunk diameter (e.g., If 12" DBH, Drill 4" deep). Only 1 injection site is required.

VIPER Method: Use a 3/8" diameter drill bit, and drill 5/8" deep into the pilot hole. Set a #4 Arborplug™. Use the VIPER needle.

STINGER Method: Push a STINGER needle into the pilot hole.

CLEAN UP

IMPORTANT! It is critical to rinse the Arborjet Tree Injection System thoroughly after use. Use **CLEAN-jet** or isopropyl alcohol. Residues left in the device may gum, clog or corrode the internal components.

Tree diameter, range of trunk application sites and Arborplug™ size selection for VIPER method

Tree DBH	Number of Application Sites	Size of Arborplug™ (Hardwoods) 9/32" drill bit	Size of Arborplug™ (Conifers) 3/8" drill bit	Number of Application Sites (Hardwoods) 7/32" drill bit
6-16"	4	#3	#4	4
17-20"	6	#3	#4	6
21-28"	8	#3	#4	8
29-32"	10	#3	#4	10
33-36"	12	#3	#4	12
>36"	Use DBH/3	#3	#4	Use DBH/3

Tree Diameter, Number of Application Sites using the STINGER tip

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