



**A.M. LEONARD**  
HORTICULTURAL TOOL & SUPPLY CO.



THE RIGHT WAY TO TREAT A TREE

## How to Use Mauget Injectors

### Tools

- Portable electric drill
- 11/64 in. (0.4 cm) drill bit
- Tape measure
- (Optional) soft headed mallet or hammer
- (Optional) Insertion tool

### Number of Micro-Injectors

- Measuring the tree: Measure the tree at chest height in inches.
  - o If *measuring the circumference*, divide this number by six (6) to determine the number of micro-injectors needed.
  - o If *measuring the diameter* at breast height (DBH), divide this number by two (2) to determine the number of micro-injectors capsules needed. If the number of micro-injectors results in a fraction, round down to the lower whole number.
- The following dosage, per capsule, depends on tree diameter:
  - o 2mL capsules – 2 to 10 inches DBH
  - o 3mL capsules – 10 to 36 inches DBH
  - o 4mL capsules – 36 inches DBH and above.
  - o 6mL capsules – narrow-leaved evergreen trees 24“ DBH and above.
- Other notes for dosage:
  - o For heavier infestation and/or more persistent insects, use 4 mL capsules on all tree sizes.
  - o For narrow-leaved evergreen trees such as pine, spruce, or hemlock > 24“ DBH, use the 6mL capsules at 4-inch circumference spacing (DBH divided by 1.3).
  - o Trees in advanced stages of insect infestation may not respond to treatment. The health, species of the tree and the environmental conditions will determine the rate of uptake.
  - o For palms and other monocotyledons, when using multiple injection sites, alternate drilling depth to capture scattered vascular bundles, taking care that the depth of any single site is less than 1/3 the diameter of the tree. If using a single injection site, one feeder tube can be used to administer the contents of all capsules. Injection sites may be covered with Lac Balsam or similar for aesthetic purposes.

### Pressurizing the Micro-Injector:

- Apply the appropriate amount of pressure on the top of the micro-injector capsule in order to compress.

### Drilling the Tree Hole:

- Drill the hole deep enough to allow the vascular system to transport materials throughout the tree.
- Make injection holes at least ½ to ¾ inch into healthy xylem (white wood) up to a depth of 2 inches from the outer trunk surface depending upon the tree species and outer bark thickness.

- For conifer species with high resin pressure during the growing season, place injection sites higher on the trunk (36 – 48”) and to a depth of up to 2 inches where tree diameter allows.

## Combining Micro-Injector and Feeder Tube

Several methods of combining the micro-injector capsule with the feeder tube are acceptable including placing by hand, the feeder tube’s flange end, with the flange notch upward, into the micro-injector capsule insert hole of a compressed upright capsule. Push the flange end of the feeder tube flush with the membrane located at the inner end of the insert hole.

## Placing the Feeder Tube in the Tree

Firmly seat the beveled, dispensing end of the feeder tube, with the attached upright micro-injector capsule, into the predrilled tree injection hole. Tap the rear side, opposite the insert hole of the micro-injector capsule either with an optional mallet, hammer or push forward with the palm of your hand. This action will simultaneously seat the feeder tube in the injection hole while breaking the micro-injector capsule membrane for releasing the capsule contents into the feeder tube and into the tree. Another method is to place the feeder tube in the predrilled hole of the tree using the optional insertion tool. Then place the compressed micro-injector capsule onto the feeder tube in place.

## Removal

Uptake in the tree usually occurs within several minutes. Micro-injector capsules may be temporarily rotated in place to see if any liquid is left. When empty, turn the capsules upside down for one minute before removal. Applicators must remove micro-injectors promptly after treatment. Empty micro-injector capsules must not be left on the tree. The health and species of the tree, and local environmental conditions will determine the rate of uptake. If the capsule does not completely empty within a few hours, invert and carefully remove the micro-injector capsule and enclose it in a heavy duty plastic bag for disposal in accordance with state and local regulations.

## Step by Step Video

<https://youtu.be/AtgWNWap0yo>

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