

**Mauget**®

**IMICIDE**®

SYSTEMIC INSECTICIDE  
FOR TREE INJECTION USE  
IN READY TO USE CAPSULES

MFG. BY:  
STREET:  
TOWN, STATE:  
EPA REGISTRATION NO:  
EPA ESTABLISHMENT NO:

J.J. MAUGET CO.  
5435 Peck Road  
Arcadia, CA 91006  
7946-16  
7946-CA-1

**ACTIVE INGREDIENT:**

Imidacloprid (110.7 mg/mL)  
1-[(6-Chloro-3-pyridinyl)methyl]-N-nitro-2-imidazolidinimine..... 10.0%

**OTHER INGREDIENTS:**..... 90.0%

Total 100.0%

**KEEP OUT OF REACH OF CHILDREN  
CAUTION**

	FIRST AID
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Call a poison control center or doctor immediately for treatment advice.</li><li>• Have person sip a glass of water if able to swallow.</li><li>• Do not induce vomiting unless told to do so by a poison control center or doctor.</li><li>• Do not give anything by mouth to an unconscious person.</li></ul>
<b>IF ON SKIN OR CLOTHING</b>	<ul style="list-style-type: none"><li>• Take off contaminated clothing.</li><li>• Rinse skin immediately with plenty of water for 15-20 minutes.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF IN EYES</b>	<ul style="list-style-type: none"><li>• Hold eye open and rinse slowly and gently with water for 15-20 minutes.</li><li>• Remove contact lenses, if present, after the first 5 minutes, then continue rinsing eye.</li><li>• Call a poison control center or doctor for treatment advice.</li></ul>
<b>IF SWALLOWED</b>	<ul style="list-style-type: none"><li>• Move person to fresh air.</li><li>• If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably mouth-to-mouth, if possible.</li><li>• Call a poison control center or doctor for further treatment advice.</li></ul>
<b>HOT LINE NUMBER</b>	
Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-535-5053 for emergency treatment information.	
<b>NOTE TO PHYSICIAN</b>	
There is no specific antidote available. Treat patient symptomatically.	

**NOTICE OF WARRANTY**

TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, J.J. MAUGET CO. MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED CONCERNING THIS PRODUCT OR ITS USE WHICH EXTEND BEYOND THE USE OF THE PRODUCT UNDER NORMAL CONDITIONS IN ACCORD WITH THE STATEMENTS MADE ON THIS LABEL.

**PRECAUTIONARY STATEMENTS  
HAZARDS TO HUMANS AND DOMESTIC ANIMALS  
CAUTION**

Harmful if swallowed or absorbed through the skin. Avoid contact with skin, eyes, or clothing. Causes eye irritation. Wash thoroughly with soap and water after handling. Avoid breathing vapors. Remove contaminated clothing and wash before reuse.

**PERSONAL PROTECTIVE EQUIPMENT:**

Some materials that are chemical-resistant to this product are listed below. If you want more options, follow the instructions for category C on an EPA chemical resistance category selection chart.

**APPLICATORS AND OTHER HANDLERS MUST WEAR:**

- Long-sleeved shirt and long pants
- Shoes plus socks
- Chemical resistant gloves, such as polyethylene or butyl rubber or neoprene rubber or viton
- Protective eyewear

**ENVIRONMENTAL HAZARDS**

This pesticide is highly toxic to aquatic invertebrates. Do not apply directly to water, or to areas below the mean high water mark. Do not contaminate water when disposing of equipment washwaters.

**PHYSICAL OR CHEMICAL HAZARDS**

Do not use or store near heat or open flame.

**Net Contents:**

\_\_\_\_\_ 288 capsules @ 4mL each, 1152 mL net; 288 feeder tubes

24 capsules plus 24 feeder tubes per carton.

\_\_\_\_\_ 24 capsules @ 2 mL, 48 mL net, or

\_\_\_\_\_ 24 capsules @ 3 mL, 72 mL net, or

\_\_\_\_\_ 24 capsules @ 4 mL, 96 mL net

\_\_\_\_\_ Shipping box: 12 Cartons as above.

12 capsules plus 12 feeder tubes per carton.

\_\_\_\_\_ 12 capsules @ 8 mL, 96 mL net, or

\_\_\_\_\_ 12 capsules @ 12 mL, 144 mL net, or

\_\_\_\_\_ 12 capsules @ 16 mL, 192 mL net

\_\_\_\_\_ Shipping box: 12 Cartons as above.

96 capsules plus 96 feeder tubes per package.

\_\_\_\_\_ 96 capsules @ 4 mL, 384 mL net.

\_\_\_\_\_ Shipping box: 3 Packages as above, 1152 mL net.

**ACCEPTED  
FOR REGISTRATION**

**Jun 6, 2011**

New York State Department  
of Environmental Conservation  
Division of Materials Management  
Pesticide Product Registration

Classified for  
"RESTRICTED USE"  
in New York State  
under 6NYCRR Part 326

Doc id: 526930

## DIRECTIONS FOR USE

IT IS A VIOLATION OF FEDERAL LAW TO USE THIS PRODUCT IN A MANNER INCONSISTENT WITH ITS LABELING.

Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirement specific to your State or Tribe, consult the State or Tribal agency responsible for pesticide regulation.

### AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and the Worker Protection Standard, 40 CFR 170. This standard contains requirements for the protection of agricultural workers on farms, forests, nurseries and greenhouses, and the handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment (PPE). The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

#### **1. The MAUGET SYSTEM**

- (A) Mauget compressible micro-injector with insert hole
- (B) Feeder tube with flanged gun-sight and opposite tapered beveled end

#### **2. TOOLS**

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

#### **3. NUMBER OF MICRO-INJECTORS**

Measure the tree at chest height in inches. If measuring the circumference, divide this number by six (6) to determine the number of micro-injectors needed. If measuring the diameter at breast height (DBH), divide this number by 2 (two) 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:

2mL capsules – 2 to 10 inches DBH

3mL capsules – 10 to 36 inches DBH

4mL capsules – 36 inches DBH and above.

For heavier infestation and/or more persistent insects use 3 mL capsules or 4 mL capsules on trees having a DBH of 2 inches and above. 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.

#### **4. PRESSURIZING THE MICRO-INJECTOR**

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

#### **5. DRILLING THE TREE HOLE**

Predrill spaced injection sites at a slight downward angle at the root flair/buttrass area (approximately 6.0 to 8.0 in., 15 to 20 cm) above ground level, using a clean 11/64 in. (0.4 cm) drill bit (except monocotyledons, conifers, etc.). Drill to a depth of 3/8 to 1/2 in. (0.95 to 1.3 cm) into healthy xylem tissue under the bark. For mini-micro feeder tube, see Step 10. Disinfect drill bit, insertion tool (if used) as well as mini-micro insertion tool prior to use on each tree.

#### **6. TREE HOLE DEPTH**

It is important that the feeder tube be set to the proper depth in the conductive xylem tissue. If set too deeply, flow is restricted by blockage in the heartwood; if set too shallow, leakage may occur. The feeder tube dispensing end is beveled to allow for a 1/4 in. plus tolerance.

#### **7. 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.

#### **8. 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.

#### **9. 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.

#### **10. MINI-MICRO FEEDER TUBE**

For established trees with thin bark (less than 3/8 in. thickness), use a 7/64 in. drill bit to produce a micro-injection site for a mini-micro feeder tube. The Mini-Micro Insertion tool may be used.

**DIRECTIONS FOR USE (CONTINUED)**

**11. MINI-MICRO INSERTION TOOL**

Because the 7/64 in. mini-micro injection site is so small, insert the mini-micro insertion tool pin into and through the mini-micro feeder tube and place the combination into the injection site. The insertion pin prevents plugging of the feeder tube and provides a clear pathway to the cambium tissue. Be sure to place the feeder tube with the flange notch up. The insertion tool is removed from the mini-micro feeder tube and the micro-injector capsule is secured to the feeder tube by sliding the inlet hold over the flange end of the tube. The system is activated by applying a force to the micro-injector capsule as previously described in Step 8.

TARGET INSECTS ON FOREST AND ORNAMENTAL TREES
<b>ADELGIDS</b> <b>APHIDS</b> <b>ASIAN LONGHORNED BEETLE</b> <b>BLACK VINE WEEVIL LARVAE</b> <b>BRONZE BIRCH BORER</b> <b>COTTONWOOD LONGHORNED BORER</b> <b>CITRUS LONGHORNED BEETLE</b> <b>DOUGLAS FIR GALL MIDGE</b> <b>DOUGLAS FIR CONE MOTH LARVAE</b> <b>ELM LEAF BEETLE</b> <b>EUCALYPTUS LONGHORNED BORER</b> <b>FLATHEADED BORER (including Emerald Ash Borer and Alder and Birch Borer)</b> <b>JAPANESE BEETLE</b> <b>LACEBUGS</b> <b>LEAFHOPPERS</b> <b>LEAFMINERS</b> <b>MEALYBUGS</b> <b>PINE TIP MOTH LARVAE</b> <b>PSYLLIDS (including Lerp Psyllid)</b> <b>ROYAL PALM BUGS</b> <b>SCALE INSECTS (including Asian Cycad Scale)</b> <b>THRIPS</b> <b>WHITEFLIES</b>

THE FOLLOWING RATES ARE FOR USE ONLY UNDER U.S.D.A. SUPERVISION U.S.D.A. RATE SPECIFICATIONS FOR ASIAN and CITRUS LONGHORNED BEETLE PROGRAMS IN U.S.D.A. QUARANTINE AREAS ONLY.
<p>Use the following rates as a function of tree diameter at breast height (DBH).</p> <p>2 to 23 inches DBH – 2 mL per diameter inch.                      24 inches DBH and above – 4 mL per diameter inch.</p> <p>Minimum horizontal spacing on injection sites: 3 inches.                      Minimum vertical spacing on injection sites: 6 inches.                      Stagger vertical spacing and do not align.                      Use 4 mL capsules on all trees 2 inches DBH and above.  <b>Do not apply more than once a year.</b></p>

FOR USE IN SEED ORCHARDS AND SEED PRODUCTION AREAS		
CROP	PESTS	RATE
<b>CONIFERS</b>	<b>DOUGLAS FIR GALL MIDGE</b> <b>DOUGLAS FIR CONE MOTH LARVAE</b>	One 3 mL capsule per 4 inches of tree circumference at breast height.

STORAGE AND DISPOSAL
<p>Do not contaminate water, food, or feed by storage or disposal.</p> <p><b>PESTICIDE STORAGE:</b> Store micro-injector capsules in an upright position, above 45° F, in a cool, dry place.</p> <p><b>PESTICIDE DISPOSAL:</b> Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.</p> <p><b>CONTAINER HANDLING:</b> Nonrefillable container. Do not reuse or refill this container. Offer for recycling, if available, or dispose of in a sanitary landfill, or by incineration if approved by state and local authorities. Do not burn unless allowed by state and local ordinances. If burned, stay out of smoke.</p>

FOR USE ON PALMS AND OTHER MONOCOTYLEDONS
<p>Use the following rate as a function of tree diameter at breast height (DBH); 1 mL per diameter inch.</p> <p>Alternate depths if multiple drill sites are chosen, but the depth of any one site must be less than 1/3 the diameter of the tree.</p> <p>Capsules are available at 2, 3, 4, 8, 12, and 16 mL.</p> <p>For heavier infestation and/or more persistent insects, use 1.5 or 2 mL per diameter inch.</p>

RESTRICTIONS
<p>Do not inject trees that are less than two inches in diameter. This product is not to be used on trees which will produce food within the year following treatment unless food crop on treated tree is discarded and destroyed.</p>