

# UNITED STATES ENVIRONMENTAL PROTECTION AGENCY WASHINGTON, DC 20460

**OFFICE OF CHEMICAL SAFETY** AND POLLUTION PREVENTION

July 2, 2021

Nancy Huddy **Regulatory Specialist** Agent, Sci Reg, Inc. for J.J. Mauget Co. 12733 Director's Loop Woodbridge, VA 22192

Subject:

Label Amendment – Delete enTREE Injection System Sub-Label from Master Label Product Name: Abacide 2 EPA Registration Number: 7946-27 Application Date: January 28, 2019 Decision Number: 548582

Dear Ms. Huddy:

The amended label referred to above, submitted in connection with registration under the Federal Insecticide, Fungicide and Rodenticide Act, as amended, is acceptable. This approval does not affect any conditions that were previously imposed on this registration. You continue to be subject to existing conditions on your registration and any deadlines connected with them.

A stamped copy of your labeling is enclosed for your records. This labeling supersedes all previously accepted labeling. You must submit one copy of the final printed labeling before you release the product for shipment with the new labeling. In accordance with 40 CFR 152.130(c), you may distribute or sell this product under the previously approved labeling for 18 months from the date of this letter. After 18 months, you may only distribute or sell this product if it bears this new revised labeling or subsequently approved labeling. "To distribute or sell" is defined under FIFRA section 2(gg) and its implementing regulation at 40 CFR 152.3.

Should you wish to add/retain a reference to the company's website on your label, then please be aware that the website becomes labeling under the Federal Insecticide Fungicide and Rodenticide Act and is subject to review by the Agency. If the website is false or misleading, the product would be misbranded and unlawful to sell or distribute under FIFRA section 12(a)(1)(E). 40 CFR 156.10(a)(5) list examples of statements EPA may consider false or misleading. In addition, regardless of whether a website is referenced on your product's label, claims made on the website may not substantially differ from those claims approved through the registration process. Therefore, should the Agency find or if it is brought to our attention that a website contains false or misleading statements or claims substantially differing from the EPA approved registration, the website will be referred to the EPA's Office of Enforcement and Compliance.

Your release for shipment of the product constitutes acceptance of these conditions. If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA section 6. If you have any questions, please contact Melody Banks by phone at (703) 305-5413 or via email at Banks.Melody@epa.gov.

Sincerely,

Faul P. Salso

Paul Di Salvo, MPS, AWB® Special Assistant / Wildlife Biologist Registration Division (7505P) Office of Pesticide Programs

Enclosure: Stamped Label

Text denoted in bracket	is is optional text or note to EPA reviewer.]	[MASTER LABEL]	[Label version: 01July2021.v01
ACCEP	ILD	ABAMECTIN G	ROUP 6 INSECTICIDE
SYSTEMIC MITIC FOR TREE INJE LISTED MITE INTENDED F MFG. BY: TOWN, STATE: EPA REGISTRATIO	ACIDE IN READY TO USE CAPSULA CIDE/INSECTICIDE IN READY TO USE CAPSULA ECTION USE FOR CONTROL/SUPPRESSION OF SINSECTS OF ORNAMENTAL/OTHER TREES FOR USE BY PROFESSIONAL APPLICATORS D.J. MAUGET ( Arcadia, CA 910 N NO: 7946-	Early signs of intoxication in incoordination, and muscul ingestion of Abacide 2 can chemical absorbents (e.g., exposure has progressed t resultant fluid and electroly Appropriate supportive par- given, along with other requires functionality) as indicated b measurements. In severe at least several days until of Since abamectin is believe is probably wise to avoid du (barbiturates, benzodiazep	<b>E TO PHYSICIAN</b> nclude dilation of pupils, muscular lar tremors. Toxicity following accidental be minimized by early administration of activated charcoal). If toxicity from o cause severe vomiting, the extent of te imbalance should be gauged. ental fluid replacement therapy should be uired supportive measures (such as sure levels and proper respiratory by clinical signs, symptoms, and cases, observations should continue for clinical condition is stable and normal. d to enhance GABA activity in animals, it rugs that enhance GABA activity ines, valproic acid) in patients with
	751-41-2) 1 <b>S</b> :		IONARY STATEMENTS IANS AND DOMESTIC ANIMALS
24 capsules ( 24 capsules (	Ib abamectin olus 24 feeder tubes per carton @ 0.07 fl. oz. (2 mL) each, 1.62 fl. oz. (48 mL) net @ 0.10 fl. oz. (3 mL) each, 2.42 fl. oz. (72 mL) net @ 0.14 fl. oz. (4 mL) each, 3.25 fl. oz. (96 mL) net	temporary eye injury. Do no	al if swallowed. Causes substantial but ot get in eyes. Harmful if absorbed through oid contact with skin or clothing. Avoid
24 capsules ( 24 capsules ( 288 capsules ( <b>KEEP</b> <b>V</b> Si usted no entiende	<ul> <li>0.14 ft. oz. (4 ftL) each, 3.25 ft. oz. (120 ftL) fter</li> <li>0.17 ft. oz. (5 mL) each, 4.04 ft. oz. (120 mL) ne</li> <li>0.26 ft. oz. (7.5 mL) each, 6.24 ft. oz. (180 mL) r</li> <li>Shipping box: 12 cartons as above.</li> <li>0.07 ft. oz. (2 mL) each, 19.5 ft. oz. (576 mL) ne</li> <li>0.10 ft. oz. (3 mL) each, 29.2 ft. oz. (864 mL) ne</li> <li>0.14 ft. oz. (4 mL) each, 39.0 ft. oz. (1152 mL) n</li> <li>0.17 ft. oz. (5 mL) each, 48.7 ft. oz. (1440 mL) n</li> <li>0.26 ft. oz. (7.5 mL) each, 74.9 ft. oz. (2160 mL)</li> <li>OUT OF REACH OF CHILDREN</li> <li>VARNING AVISO</li> <li>la etiqueta, busque a alguien para que se la expoud o not understand the label, find someone to expoude the set of t</li></ul>	t Some materials that are ch below. If you want more o B on an EPA chemical resi APPLICATORS AND OTH • Long-sleeved shirt and lo • Chemical resistant gloves ≥ 14 mils • Shoes plus socks • Protective eyewear Follow manufacturer's instr no such instructions for wa Keep and wash PPE separ	hemical-resistant to this product are listed options, follow the instructions for category stance category selection chart. ER HANDLERS MUST WEAR: ong pants s, such as barrier laminate or butyl rubber ructions for cleaning/maintaining PPE. If shables, use detergent and hot water. rately from other laundry.
to you in detail).		USER SAFETY RECOMM	ENDATIONS
IF SWALLOWED	<ul> <li>FIRST AID</li> <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 b poison control center or doctor.</li> <li>Do not give anything by mouth to an</li> </ul>	<ul> <li>eating, drinking, chewing</li> <li>Remove contaminated clubefore reuse.</li> <li>NOTICE: This product contained to the state of Califor reproductive harm.</li> </ul>	ap and water after handling and before gum, using tobacco, or using the toilet. othing and wash clothing immediately tains a chemical (N-methyl pyrrolidone) ornia to cause birth defects or other <b>NMENTAL HAZARDS</b>
IF IN EYES	<ul> <li>unconscious person.</li> <li>Hold eye open and rinse slowly and gently wit water for 15-20 minutes.</li> <li>Remove contact lenses, if present, after the fit 5 minutes, then continue rinsing eye.</li> <li>Call a poison control center or doctor for treatment advice.</li> </ul>	h This pesticide is toxic to f water. Do not contamina washwaters or rinsate. Th to direct treatment or residu <b>PHYSICAL C</b>	ish and wildlife. Do not apply directly to ate water when disposing of equipment is product is highly toxic to bees exposed
IF ON SKIN OR CLOTHING	<ul> <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>	Do not contaminate water micro-injection capsules.	GE AND DISPOSAL , food or feed by storage or disposal of Do not reuse micro-injection capsules.
IF INHALED	<ul> <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>	of children. Store capsule Keep out of direct sunlight <b>PESTICIDE DISPOSAL</b> approved waste disposal fa <b>CONTAINER HANDLIN</b>	: Dispose of partially used capsules at an acility. <b>G:</b> Offer for recycling, if available. Dispose
center or doctor, or g	ntainer or label with you when calling a poison con joing for treatment. You may also contact <b>INFOTF</b> emergency treatment information.		nitary landfill or by incineration if approved ies.

[MASTER LABEL]

# **Resistance Management**

For resistance management, ABACIDE 2 contains a Group 6 insecticide. Any insect/mite population may contain individuals naturally resistant to ABACIDE 2 and other Group 6 insecticides/acaricides. The resistant individuals may dominate the insect/mite population if this group of insecticides/acaricides are used repeatedly in the same fields. Appropriate resistance-management strategies should be followed. To delay insecticide/acaricide resistance, take the following steps: • Rotate the use of ABACIDE 2 or other Group 6 insecticides/acaricides within a growing season, or among growing seasons, with different groups that control the same pests. • Adopt an integrated pest management (IPM) program for insecticide/acaricides use that includes scouting, uses historical information related to pesticide use, crop rotation, record keeping, and which considers cultural, biological and other chemical control practices. • Monitor after application for unexpected target pest survival. If the level of survival suggests the presence of resistance, consult with your local university specialist or certified pest control advisor. • Contact your local extension specialist or certified crop advisors for any additional pesticide resistance-management and/or IPM recommendations for the specific site and pest problems in your area. • For further information or to report suspected resistance contact J.J. Mauget Co. representatives at (626) 444-1057 or at mauget.com.

# **DIRECTIONS FOR USE**

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

# RESTRICTIONS

For terrestrial nonfood use only. Due to toxicity to bees, use for tree micro-injection only as a post-bloom application. 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.

### **USE DIRECTIONS**

ABACIDE 2 insecticide is intended for use by commercial Arborists (applicators) on forest, woodlands, Christmas and ornamental trees, trees growing in parks, cemeteries, golf courses, and seed and cone nurseries/orchards for control of bud and leaf pests; shoot, stem, trunk, branch, and phloem-feeding pests; and suppression of pine cone worms, pine seed bugs, and aphids, thrips, and whiteflies. ABACIDE 2 can also be applied in commercial or residential landscapes, interior and exterior plantscapes, and other areas where ornamental trees and woody shrubs are grown. Make applications prior to pest appearance or after they are observed. A single application lasts one growing season. For two-season control of Scolytid Bark Beetle, see Pest, Rate, and Timing table below.

#### Timing of Application:

Preventive applications 2 to 4 weeks prior to anticipated feeding damage will provide better management, but rescue treatments will also perform well with acceptable minimal damage. For bark beetles such as Engraver beetle, Mountain Pine beetle, and Southern pine beetle, late summer/early fall treatments the year prior to next season infestation are preferred, but not exclusive.

# **Combination Treatments:**

When treating for beetles that carry fungi (ambrosia), an additional treatment of fungicide may improve management strategies. Materials to consider are fungicides labeled for use against vascular-inhabiting fungi.

# 1. The MAUGET GENERATION II SYSTEM

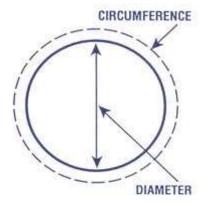
- (A) Mauget compressible capsule with insert hole
- (B) Feeder tube with flanged gun-sight and opposite tapered beveled end

# 2. TOOLS

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

# 3. NUMBER OF CAPSULES

Measure the circumference or diameter of the tree at chest height at a level of 4.5 feet from the soil-line using a tape measure or an arborist diameter tape. If measuring the circumference, divide this number by six (6) to determine the number of capsules needed. If measuring the diameter at breast height (DBH), divide this number by 2 (two) to determine the number of capsules needed.



If the number of capsules results in a fraction, round up to the higher whole number. To account for trunk flare, place injection sites evenly (every 6-8 inches) around the base of the root flare within 6 to 8 inches of the root crown. For treatment of pinewood wilt nematode, space injection sites every 4 inches of circumference. For pines and other resinous conifer species, injection sites may be higher up on trunk (refer to Step 5). Follow good injection practices. Disinfect drill bit prior to use on each tree.

Use the following dosage, depending on tree diameter, unless treating for Scolytid beetles (see Application Chart):

2 mL capsules – 2 to 10 inches DBH or 6 to 30 inches of circumference: space capsules at approximately 6 inch intervals

- 3 mL capsules 10 to 36 inches DBH or 30 to 113 inches of circumference; space capsules at approximately 6 inch intervals
- 4 mL capsules 36 inches DBH and above or 113+ inches in circumference; space capsules at approximately 6 inch intervals

[Text denoted in brackets is optional text or note to EPA reviewer.]

#### [MASTER LABEL]

For heavier infestation and/or more persistent insects, use the 4 mL capsules for all tree sizes. 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.

For trees that require higher dosages per diameter inch, multiply the desired dosage by tree size, then divide by the capsule dosage to achieve total number of capsules. The 7.5 mL dosage allows for a single ring of capsules around the tree at closer spacing. Alternatively, use a piggy-back application (same feeder tube, 2 capsules drained back to back) with the 5 mL dosage at the standard spacing of every 6 inches circumference.

For example, using the lps beetle rate of 5-20 mL per diameter inch, a rate of 5 mL per inch DBH delivered with a 7.5 mL capsule is:

- a) 20 inch DBH tree x 5 mL per inch DBH = 100 mL per tree.
- b) Divide 100 mL by 7.5 mL capsule.
- c) Total capsules: 13.3; round to 14 total capsules. Round all fractions up to the next higher number.
- d) Divide the circumference (62.8 inches) by 14 capsules = 4.5 inches.
- e) Space capsules every 4-5 inches around the circumference of the tree.

# 4. PRESSURIZING THE CAPSULES

Pressurize capsules before or after installation. Making applications in high-altitude conditions may be difficult, due to the button not locking down. This is an indication of high internal capsule pressure that results in faster diffusion of product into the tree. To maintain optimal pressure, monitor the capsules after installation and pressurize units when half of the dosage is administered. If the center button depresses too easily and drainage is slow, pre-puncturing the capsule port membrane with the feeder tube prior to installation will equalize pressure to allow for diffusion.

# 5. DRILLING THE TREE HOLE

Unless otherwise noted, predrill, at approximately 6 in. intervals, injection sites at a slight downward angle at the root flair/buttress 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. For conifer species with high resin pressure, place injection sites higher on the trunk (36-48") and to a deeper drill depth of 2+ inches.

#### 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 CAPSULE AND FEEDER TUBE

Several methods of combining the capsule with the feeder tube are acceptable including placing by hand, the feeder tube's flange end, with the flange notch upward, into the 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 capsule, into the predrilled tree injection hole. Tap the rear side, opposite the insert hole of the capsule with a mallet. This action will simultaneously seat the feeder tube in the injection hole while breaking the 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 capsule onto the feeder tube in place.

#### 9. REMOVAL

Uptake in the tree usually occurs within several minutes. 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 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 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 (special order size). Use of the Mini-Micro Insertion tool is recommended.

TARGET PESTS, APPLICATION RATES and TIMING			
PEST	RATE		
Aphid, Thrip, and Whiteflies	1-2mL/inch DBH, suppression.		
Clearwing Moth Borers, such as Ash, Fir, Oak, Pine, Sequoia Pitch Moth, Sycamore, and Willow	1-2 mL/inch DBH.		
Leaf Beetle and Leaf Miner	1-2 mL/inch DBH. Treat just prior to insect activity in area.		
Lepidopteran larvae, such as Bagworm, Spruce Budworm, Webworms, Gypsy Moth, Tent Caterpillars, Oakworm, Tussock Moth, Winter Moth, and Zimmerman Moth	1-2 mL/inch DBH. Treat just prior to insect activity in area.		
Mites, such as warm and cool season mites, Palm mites, rust mites, gall mites, and eriophyid mites	1-2 mL/inch DBH. Treat just prior to insect activity in area.		
Pine Cone Worm and Pine Seed Bug	5-20 mL/inch DBH. Treat 3-4 weeks prior to anticipated insect activity. Fall provides better distribution of product throughout tree.		
Pinewood Wilt Nematode (except CA)	3-5 mL/in DBH or 4-6 mL every 4 inches of trunk circumference.		
Plant bugs, such as Ash, Honey Locust, and Sycamore	1-2 mL/inch DBH. Treat just prior to insect activity in area.		

[Text denoted in brackets is optional text or note to EPA reviewer.]

# [MASTER LABEL]

Roundheaded Borers such as Sawyer beetle (except Asian Longhorned Beetle)	5-20 mL/inch DBH.
Sawfly larvae, such as Elm and Pine	1-2 mL/inch DBH. Treat just prior to insect activity in area.
Scolytid Bark Beetle, such as Ips Engraver Beetle, Mountain Pine Beetle, Southern Pine Beetle, Spruce Beetle, Turpentine Beetle, and Western Pine Beetle	5-20 mL. Fall provides better distribution of product throughout the tree.
Sycamore Lace Bug	1-2 mL/inch DBH. Treat just prior to insect activity in area.

NOTE: For Scolytid beetle treatment, use the lower dosage range for single-season control, Use the mid- to high dosage range for two-season control,

# DISCLAIMER

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 uses which extends beyond the use of the product under normal conditions in accord with the statements made on this label.

[Text denoted in brackets is optional text or note to EPA reviewer.] [List of optional label claims:

- Begins absorbing upon injection
- Connect directly to the tree
- Convenient (Simple) (Design)
- Easy(-ier) to use (convenient, handy, useful, well-situated)
- Easy to apply
- Easy to store
- Easy (to use)
- Easy to use application
- Economical
- Even if it rains it won't lose its effectiveness
- Ideal for targeting specific infested locations (in orchards)
- It works!
- A single application lasts one growing season
- No mix, no mess
- No mixing (necessary) (required)
- Once it enters the tree it won't wash off
- Only takes a few minutes to inject
- Preventative treatment
- Ready to Use
- Shake well before application (applying)
- Quick and easy to use
- Ready to Use No Mixing, No Measuring
- Requires no mixing
- Results that show
- (The) Next Generation of Tree Care (Low pressure tree injection)
- Trusted results for satisfaction
- Works on (pest list)
- Works!
- This ready to use insecticide is an insecticide designed to kill (control) (suppress) listed pests on (insert tree species listed on label)
- Promotional options:
  - Save up to \$(x) on (your) next purchase
  - (X)% free (more)
  - Great value
  - Bonus size
  - Free (insert brand name) (insert amount) value
  - Reasonably priced
  - Additional savings
  - Cost saving consumables
  - Economical
  - Invest in labor rather than equipment (machinery)

[Text denoted in brackets is optional text or note to EPA reviewer.] PACKAGING RELATED CLAIMS:

- Connect directly to tree
- Controlled delivery
- Convenient
- Quick & (and) easy to use
- Delivers direct treatment
- Direct injection (inject) (injecting)
- Easy
- Easy and convenient
- Easy to store (and dispose) (see instructions)
- Easy to use
- Eliminate(s) mixing
- The easy way to treat (with brand name)
- The easier way to treat (with brand name)
- Next generation of tree care: (low pressure tree injection LPTI)
- No (more) hand fatigue
- No constant trigger squeezing
- No more pumping
- No pumping just inject
- No cumbersome set up
- No equipment clean up
- No costly machines or bulky equipment
- No high pressure forced delivery
- No product wastage
- No complicated mixing steps of chemistries
- Only takes a few minutes to apply
- Precise control for maximum accuracy
- Prepackaged chemicals
- Prevents spillage
- Consistent injection for maximum accuracy
- No more tired (aching) hands
- Fast and easy application
- Easy to use application (injection)
- Easy to use injection
- Change the way you(tree inject) (inject)
- No more spray! Inject!
- Ideal for large or small jobs (areas)
- Great for large or small jobs (areas)
- Precise control
- Prepackaged chemicals
- Save (Saves) time and energy
- Give your hands a break
- Accurate
- Convenient
- Effective
- Efficient (concentrations)
- Economical
- No more bending over
- Fast and easy application
- Full and efficient delivery
- Simple!
- Improved!
- No (More) Hand Fatigue!
- No Mix, No Mess
- No more pumping, no more pulling, just inject
- No spray! Just inject!
- No more tired (aching) hands
- Minimal investment in equipment and consumables
- Precise control for maximum accuracy
- Quick & Easy to Use
- Save (Saves) time and energy
- Uses tree's natural transpiration system for (quick) absorption
- Simplified equipment
- Simplified calculations

[Text denoted in brackets is optional text or note to EPA reviewer.]

[MASTER LABEL]

- Simplified pre-filled ready to use devices Targeted injection •
- Target infested spots •
- The easy way to inject •
- The fast and easy way to inject! •
- •
- Change the way you (tree) inject Treat(ment) of more trees in less time] •