

Reg # 7746-15

PM 13

12/14/94

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY



U.S. ENVIRONMENTAL PROTECTION AGENCY
Office of Pesticide Programs
Registration Division (H7505C)
401 "M" St., S.W.
Washington, D.C. 20460

EPA Reg. Number:

Date of Issuance:

7946-15

DEC 14 1994

NOTICE OF PESTICIDE:

- X Registration
Reregistration

(under FIFRA, as amended)

Term of Issuance:

Unconditional

Name of Pesticide Product:

INJECT-A-CIDE AV

Name and Address of Registrant (include ZIP Code):

J. J. Mauget Co.
2810 N. Figueroa St.
Los Angeles, CA 90065

Note: Changes in labeling differing in substance from that accepted in connection with this registration must be submitted to and accepted by the Registration Division prior to use of the label in commerce.

On the basis of information furnished by the registrant, the above named pesticide is hereby registered/reregistered under the Federal Insecticide, Fungicide and Rodenticide Act.

Registration is in no way to be construed as an endorsement or recommendation of this product by the Agency. In order to protect health and the environment, the Administrator, on his motion, may at any time suspend or cancel the registration of a pesticide in accordance with the Act.

This product is unconditionally registered in accordance with FIFRA sec. 3(c)(5) provided that you:

- 1. Make the following label changes:
a. Revise the EPA Registration Number to read, "EPA Reg. No. 7946-15."
b. Revise the Commercial Applicators statement to read: For Use by Professional Arborists (Applicators)."
c. Expand the Statement of Practical Treatment on the front panel as follows:

STATEMENT OF PRACTICAL TREATMENT

IN INHALED: Remove victim to fresh air. If not breathing, give artificial respiration, preferably mouth-to-mouth.
IF INGESTED: Immediately give one or two glasses of water and induce vomiting by gently touching back of the throat with finger. Do not induce vomiting or give anything by mouth to an unconscious person.
IF ON SKIN: Wash with plenty of water.
IF IN EYES: Flush with plenty of water
Get medical attention in all cases.

CONCURRENCES

Table with columns for Signature of Approving Official, Date, and other fields. Includes handwritten signature and date 12-20-94.

Following the above statements add the following medical information:

Recommendations for Medical Treatment for Abamectin B₁ Acute Toxicity: Early signs of intoxication include mydriasis (dilated pupils), ataxia (unsteadiness), and muscle tremors. Toxicity following accidental ingestion of the concentrate can be minimized by inducing vomiting within one half hour of exposure.

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriated supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels) as indicated by clinical signs, symptoms and measurements.

In severe cases, observations should continue for at least several days until clinical condition is stable and normal. Since abamectin is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that influence GABA activity (barbiturates, benzodiazapines, valproic acid) in patients with potentially toxic abamectin exposure.

- d. On the side panel the fish and wildlife statement must be moved under the heading "Environmental Hazards." This section should be revised to read as follows:

Environmental Hazards: This pesticide is toxic to fish and wildlife. Do not apply directly to water. Do not contaminate water when disposing of equipment washwater or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming crops. Use for tree microinjection only as a post-bloom application.

- e. Under Precautionary Statements expand the statement to read as follows:

Wear chemical resistant gloves and protective eyewear.

- f. In the pamphlet change "DANGER" above the heading precautions to "WARNING."
- g. The instructions in the pamphlet indicates removal of capsules within 7 days. This is inconsistent with the label statement to remove promptly after treating. Revise or delete the statement in the pamphlet.
- h. Under General Directions on the label add:

"Protective eyewear and chemical resistant gloves must be worn while handling or installing the capsule to prevent accidental contact with the eyes or skin."

- 3911
7
- i. The label must bear the sites of application and specific pests controlled. Thus under General Directions add the following:

"Inject-A-Cide AV insecticide is for use by Commercial Arborists (applicators) on ornamental trees for control of spider mites (except conifers), leaf miners, elm leaf beetle, sycamore lace bug and fall webworm. It can be applied in commercial and residential landscapes, interim and exterior plantscapes and other areas where ornamental trees and woody shrubs are grown."

- j. Under the heading General Information add the following exclusinary statement to remove this product from the scope of Worker Protection Standard:

Not for use on plants being grown for sale or other commercial use, or for commercial seed production, or for research purposes. For use on plants intended for aesthetic purposes or climatic modification and being grown in interior plantscapes, ornamental gardens or parks, or on golf courses or lawns or grounds.

- k. Immediately beneath Storage and Disposal add:

"Do not contaminate water, food or feed by storage or disposal of microinjection capsules. Do not reuse microinjection capsules."

- l. The EPA Reg. No. and referral statement, i.e., "See carton label and pamphlet for complete directions and precautions" must appear on the unit label.

- m. On the pamphlet add the EPA Registration Number and a statement on the front page stating:

"Refer to product label for additional precautions and limitations on the use of this product."

2. Submit the repackaging process for down-packing Avid 0.15 EC Miticide/Insecticide into the Inject-A-Cide AV capsules.

3. Submit two copies of the revised final printed label prior to release for shipment.

If these conditions are not complied with, the registration will be subject to cancellation in accordance with FIFRA sec. 6(e). Your release for shipment of the product constitutes acceptance of these conditions.

A stamped copy of the label is enclosed for your records.

George T. LaRocca
Product Manager 13
Insecticide-Rodenticide Branch
Registration Division (7505C)

enclosure

ACCEPTED
with 02-03-1994
by EPA L. 100-1-100

DEC 14 1994

Under the Federal Food, Drug,
and Cosmetic Act and Public Law
90-544, this product is hereby
certified under FDCA.

2946-15

Directions

for use and
application of

Mauget Micro-Injection System

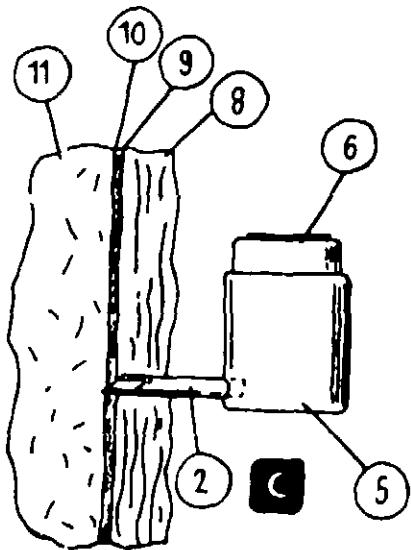
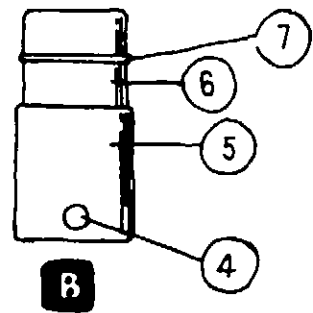
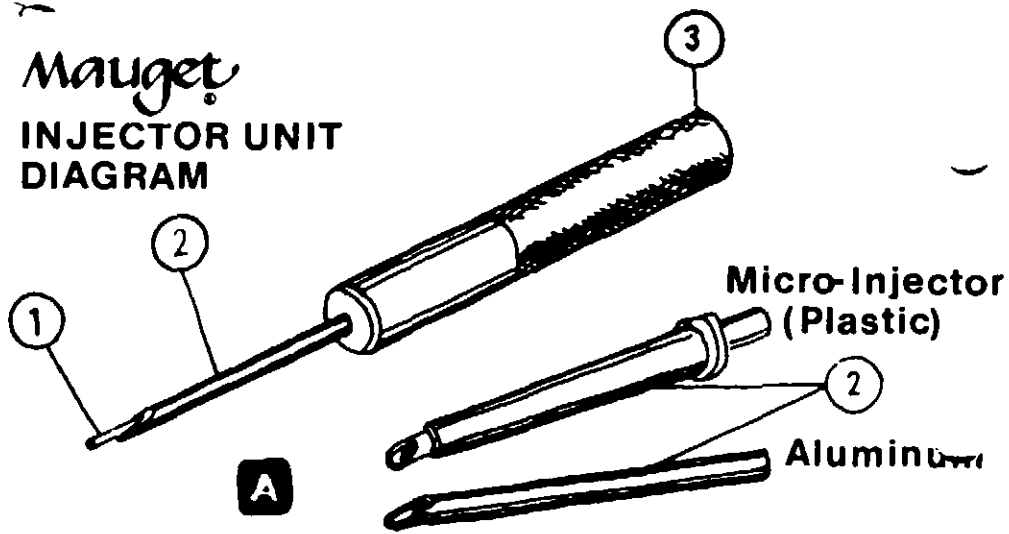


J.J. MAUGET CO., INC.

2810 NO. FIGUEROA ST., LOS ANGELES, CA 90065

5115

**Mauget
INJECTOR UNIT
DIAGRAM**



- Fig. "A" INSERTION TOOL
- Fig. "B" CAPSULE AS RECEIVED
- Fig. "C" PRESSURIZED CAPSULE CONNECTED TO TREE
- 1 Penetrating Pin
- 2 Feeder Tube
- 3 Driving End of Tool
- 4 Connection Hole in Capsule
- 5 Lower Member of Capsule (double wall)
- 6 Upper Member of Capsule (single wall)
- 7 Final Locking Ring
- 8-9 Bark
- 9-10 Xylem Area (Sapwood)
- 10-11 Heart Wood Area

REAMER (not shown) is used to remove aluminum from the Inserting Tool. Place Reamer and Inserting Tool together with Penetrating Pin inside Reamer. Hold together and rotate to remove any aluminum from seat of Inserting Tool.

Directions for Use of MAUGET MICRO-INJECTION COMPONENTS When Using Insertion Tool

Measure DBH (Diameter Breast High) two or circumference in inches divided by 2 of feeder tubes and capsules to use. Transfer (about 4 inches above ground level) on the high points. Although not as desirable, breast high or higher if circumstances so dictate above root collar, placement should be 6 inches above root collar, placement should be 6 inches above root collar. Whenever forking occurs within 6 inches above root collar, treat forking limbs as individual trees if you are above root collar.

It is extremely important that the feeder tube depth into xylem #9-10. If set too deep, blockage in the heart wood; if set too shallow, fluid may be forced back through the bark. Cut to allow for a 1/4 inch plus or minus error.

To Set Feeder Tube into Tree

Refer to Diagram:

Place feeder tube #2 on penetrating pin and hammer the diagonally cut end of the tube outward.

Hold hammer at right angle to tree bark and hammer until hard wood #10 is encountered. Continue to drive the tool penetrating pin. Continue to drive the tool penetrating pin. Tool must always be held at right angle to tree bark. After initial entry, do not attempt to use tool as a bent penetrating pin will result.

Remove tool by rotating a few turns to the left and pull straight out. It is important that the tool be pulled straight out as the seal between tube and tree is broken. Disinfect insertion tool before or between uses with household bleach in 12 parts water or spray with 70% alcohol. Do not use isopropyl rubbing alcohol.

Micro-Injection Procedure With A 600-800 RPM Cordless Drill

Alternate Drilling Method of Setting Feeder Tubes:

With the advent of the cordless rechargeable drill, the insertion tool is often being supplanted by the use of drills with fast (1 hour) rechargeable power packs by either 12 volt or 110 volt systems. Using a 11/64" drill bit at 600 - 750 rpm, clean holes are drilled 3/8" to 1/2" into the xylem at the root collar (within 4" of ground level). The placement of the feeder tubes is the same as with the insertion tool. The feeder tubes may be inserted into the drilled holes by gently tapping with a plastic or rubber hammer. The use of an insertion tool at this point may insure that the feeder tube is not clogged with cuttings. Usually the act of applying the capsule will place the feeder tube to the desired depth.

To Apply Capsules:

Pressurize capsule "B" by forcing cap #6 downward to engage bottom locking ring #7. Capsule is then connected to preset feeder tube by means of hole #4. Turn capsule upside down and force or tap capsule on tube until the internal seal within the capsule is ruptured "C". Overall distance of capsule on tube should be approximately 3/8" as it is controlled by collar on plastic feeder tube.

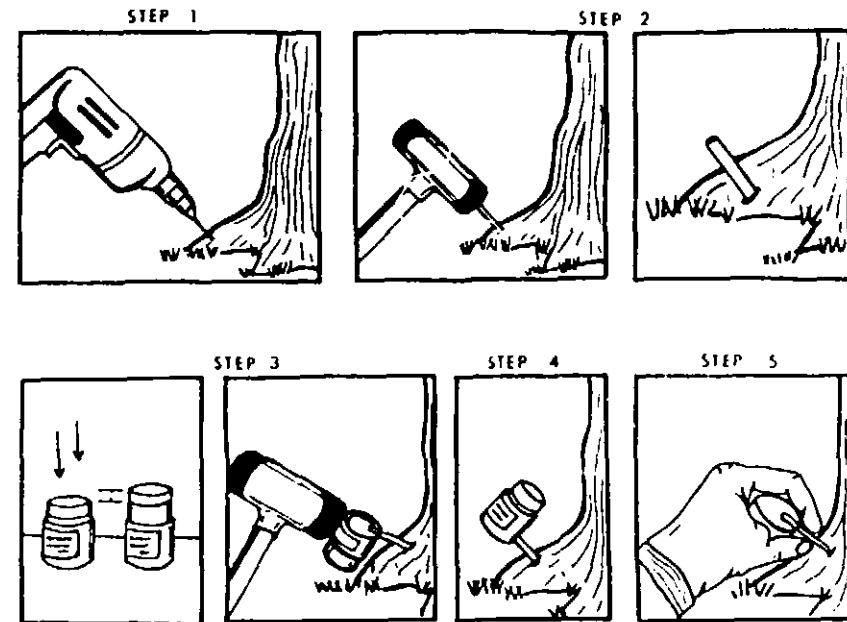
Removing Capsule and Feeder Tube:

Allow capsule to remain in place "C" until completely empty. Capsule may be revolved on the feeder tube for visual inspection to determine when empty. Allow capsule to remain in a downward position at least 1 minute prior to removing. This will clear opening #4 of material. Pull feeder tube from trunk with a pair of pliers.

DANGER: KEEP OUT OF REACH OF CHILDREN.

Precautions:

Do not treat trees that are under stress such as lack of moisture, diseased or suffering from herbicide damage. Trees of less than two (2) inches in diameter should not be injected. Don't inject trees within a two week period of any other treatments to the soil or foliage. Stemix multinutrients may at certain times produce a slight leaf scorching and/or light defoliation. Where this occurs, trees usually recover with a flush of healthy green tissue as the growing period continues.



Measure DBH (Diameter Breast High) in inches and divide by two to determine the number of capsules to use. Transfer placement to root collar (about 4 inches above ground level) on the stimulated root flares or high points. (See back of Page)

Step 1 Drill with 1/64 inch drill bit 3/8 inch into xylem tissue.

Step 2 Insert *aluminum* feeder tube into drilled hole with beveled end at 45° angle from horizontal. Tap tube lightly with a rubber or plastic mallet to seat it firmly in hole.

* See instructions for Plastic Micro-Injector.

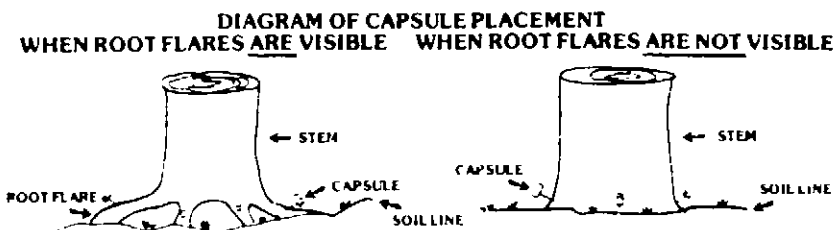
Step 3 Place capsule on firm flat surface and compress by pressing with bottom of foot, heel of hand or under some conditions with a plastic or rubber mallet. Turn capsules upside down and align starter hole in capsule with tube. Tap on capsule until inner diaphragm seal is broken.

Step 4 Turn the capsule right side up to allow the liquid contents to flow through the tube into the xylem and phloem tissue in the tree.

Step 5 Allow time for the tree to absorb all the liquid, then turn the capsule upside down for at least a minute before removal. Dispose of capsules in a manner approved by State and Local authorities.

Placement of Capsules

1. Always place capsule on root-buttrass at *soil line*.
2. Always place capsule in sound wood.
3. When *insertion tool* is used, set feeder tube $\frac{3}{8}$ " — $\frac{1}{2}$ " into active conducting wood tissue.
4. When *drill* is used, place feeder tube $\frac{3}{8}$ " into active conducting wood tissue.



Inject Only In Sound Wood

STEMIX (contains nutrient and mineral solutions as labeled) Older deciduous trees respond to corrective injections more rapidly during bud swelling or shortly afterwards. Time evergreen applications with the period just preceding a flush growth. Autumn injections are excellent for results the following year. A STEMIX treated tree will generally appear healthier than a closely untreated tree for one to five years or more.

STEMIX promotes leaf development and stimulates feeder root growth encouraging better utilization of commercial fertilizers.

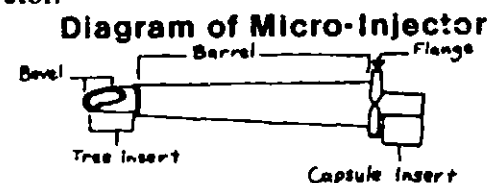
STEMIX also works for trees which need a nutritional boost because of — poor soil conditions — paving or blacktop over root system — loss of part of root system due to construction — continued insect attack — effects of air pollution.

STEMIX provides effective results in tree jobs involving: treatment with insecticides and fungicides — corrective surgery and pruning — flood damage — tree transplanting — freeze damage — trees exposed to fire.

CAUTION: Trees which have Phytophthora (Water mold) disease (Black root rot) will be stimulated by a STEMIX injection causing it to die sooner than it normally would. Do not use Stemix for at least six months after you use Inject-A-Mycin "S". Remove all capsules within one week.

* Instructions for the Use of the Plastic Mauget Micro-Injector

The improved Mauget Micro-Injector requires subtle differences in techniques than its predecessor the metal feeder tube. The steps below will guide you in the correct use of the Mauget Micro-Injector.



1. Predrill the injection site at a slight downward angle at the root flare using an $11/64$ " diameter clean, sharp bit to a depth of $3/8$ " into the vigorous wood (xylem) tissue. On thick bark trees, a $3/16$ " drill bit may be desirable.

2. Place, by hand, the capsule insert with flange notch upward into a compressed inverted capsule. Push the capsule insert flush with the internal capsule membrane.

3. Then, by hand firmly seat the tree insert portion of the Micro-Injector with the attached inverted capsule into the pre-drilled injection site.

4. Next, with one hand tap the top corner of the capsule directly behind the Micro-Injector with a plastic mallet while steadying the capsule with the other hand. This action will simultaneously seat the Micro-Injector into the tree while releasing the compound from the capsule into the tree.

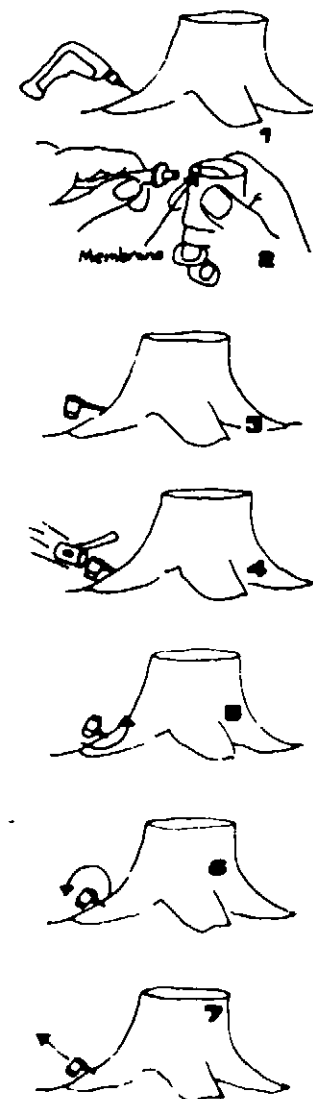
5. Now turn the capsule upright to allow the contents to enter the tree through the injection site.

6. When the contents have emptied from the capsule, turn it upside down to allow any material to drain away from the capsule opening. Remove all capsules within 7 days.

7. Next grasp the Micro-Injector at the flange and draw it straight back in one motion out of the injection site. In one step you have removed the Micro-Injector and capsule. When using pesticides follow all safety procedures outlined in the label and directions.

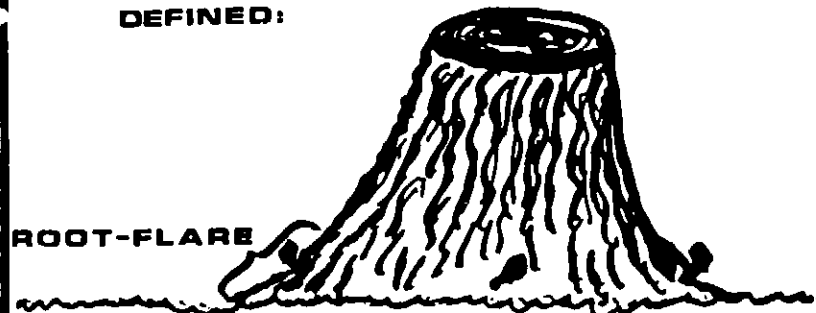
8. Dispose of the used capsules and Micro-Injectors in compliance with the laws of the State in which they are being used.

9. Practice only with fertilizers.



MICRO-INJECTION

DEFINED:



ROOT-FLARE

INJECTION SITE

DIAMETER

DEPTH

1 1/84" DRILL

3/8" XYLEM

11
9
6

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS & DOMESTIC ANIMALS

WARNING

This pesticide is toxic to fish and wildlife. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Prolonged or frequently repeated exposure may cause allergic skin reactions in some individuals. Harmful if absorbed through skin. Avoid contact with skin. Wear chemical resistant gloves when handling and applying the product.

ENVIRONMENTAL HAZARDS

Do not apply directly to water
Do not contaminate water by cleaning of equipment or disposal of wastes.

DIRECTIONS FOR USE

It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

GENERAL DIRECTIONS

Apply injector units at 6" intervals of trunk circumference at base of tree. Consult the enclosed pamphlet "Directions for use and application of Mauget Injector Units" for specific details. Disinfect the insertion tool or drill before treating subsequent trees. Remove capsules promptly after treatment. Since phytotoxicity has been noted in some trees, users should inspect holes and discontinue use if phytotoxicity is observed.

SEE SIDE LABEL FOR APPLICATION INFORMATION

Mauget
Microject

INJECT-A-CIDE AV

(Contains Abamectin)

INTERNAL SYSTEMIC TREATMENT BY MICRO-INJECTION FOR CONTROL OF INSECTS/MITES ON ORNAMENTAL TREES. RECOMMENDED ONLY FOR USE BY COMMERCIAL APPLICATORS.

ACTIVE INGREDIENT

Abamectin B₁ (A mixture of abamectins containing >80% abamectin B₁ (5-O-demethyl abamectin A₁) and <20% abamectin B₁ (5-O-demethyl-25-de(1-methylpropyl)-(1-methylethyl)abamectin A₁))

INERT INGREDIENTS

98
100

ACCEPTED
with COMMENTS
by EPA Letter Dated

DEC 14 1994

Under the Federal Insecticide, Fungicide, and Rodenticide Act as amended, this product is registered under FIFRA

7946-15

KEEP OUT OF REACH OF CHILDREN

WARNING

STATEMENT OF PRACTICAL TREATMENT

In case of contact immediately flush eyes or skin with plenty of water. Get medical attention if irritation persists.

SEE SIDE PANEL FOR ADDITIONAL PRECAUTIONARY STATEMENTS

MFG BY: J. J. MAUGET CO.
TOWN, STATE: LOS ANGELES, CALIF. 90065
ESTABLISHMENT NO: EPA EST. NO. 7946-CA-1
EPA REGISTRATION NO. 7946
NET CONTENTS: 300 Units 1 ml or .04 oz. by wt. ea

OTHER spray

Do not treat trees that are suffering from stress such as lack of moisture or herbicide damage.

This product is not to be used on trees which will produce food within the year following treatment (ie. maple syrup or fruit)

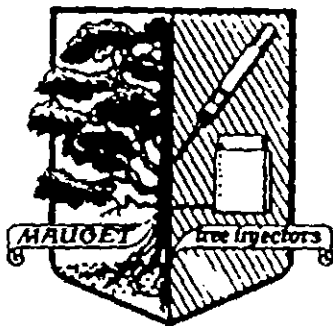
STORAGE AND DISPOSAL

STORAGE: In a cool place with units in an upright position.

Keep out of direct sunlight when possible. Store in closed carton.

DISPOSAL: Dispose of empty capsules in a sanitary landfill or by incineration if approved by State and Local authorities

save trees



NOTICE OF WARRANTY

MAUGET CO. MAKES NO WARRANTY OF MERCHANTABILITY, FITNESS FOR ANY PURPOSE OR OTHERWISE, EXPRESSED OR IMPLIED CONCERNING THIS PRODUCT OR ITS USES WHICH EXTEND BEYOND THE USE OF THE PRODUCT UNDER NORMAL CONDITIONS IN ACCORDANCE WITH THE STATEMENTS MADE ON THIS LABEL.

BEST AVAILABLE COPY

Mauget®

INJECT-A-CIDE® AN
(Contains Avermectin)

1 ml.

ACTIVE INGREDIENT:

Avermectin B₁ - A mixture of Avermectin A₁, 5 - 8 - demethyl-
and Avermectin A₂, 5 - 8 - demethyl-25-de(1-methylpiperidyl)-25-
(1-methylpiperidyl) _____ 1.3%
Inert ingredients _____ 98.7%
TOTAL 100.0%

KEEP OUT
OF REACH
OF CHILDREN

Net Contents: 1 ml.

MADE IN U.S.A. J.J. MAUGET CO. LOS ANGELES, CA 90066

ACTUAL SIZE

Mauget®

INJECT-A-CIDE® AN
(Contains Avermectin)

1 ml

ACTIVE INGREDIENT:

Avermectin B₁ - A mixture of Avermectin A₁, 5 - 8 - demethyl-
and Avermectin A₂, 5 - 8 - demethyl-25-de(1-methylpiperidyl)-25-
(1-methylpiperidyl) _____ 1.3%
Inert ingredients _____ 98.7%
TOTAL 100.0%

KEEP OUT
OF REACH
OF CHILDREN

Net Contents: 1 ml.

MADE IN U.S.A. J.J. MAUGET CO. LOS ANGELES, CA 90066

BEST AVAILABLE COPY

