

SYSTEMIC INSECTICIDE
FOR TREE INJECTION USE
IN LIQUID LOADABLE INJECTORS
INTENDED FOR USE BY PROFESSIONAL APPLICATORS

MFG. BY:
ADDRESS:
TOWN, STATE:
PHONE:
J.J. MAUGET CO.
129 Growth Center Dr NE #A
Floyd, VA 24091
626-444-1057
FPA REGISTRATION NO:
7946-35

EPA ESTABLISHMENT NO:

<u> </u>		
ACTIVE INGREDIENT: Dinotefuran		
Net Contents:		
1 bottle @ 1 liter (33.8 fl. oz.)		
1 bottle @ 500 mL (16.9 fl. oz.)		
Shipping box: 4 bottles as above		
Batch Code:		
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GROUP 4A INSECTICIDE

CAUTION

[See inside label for [complete][additional] [First Aid,][Precautionary Statements,][Directions for Use,] [and] [Storage and Disposal.]

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FIRST AID		
IF SWALLOWED	 Call a poison control center or doctor immediately for treatment advice. Have person sip a glass of water if able to swallow. Do not induce vomiting unless told to do so by a poison control center or doctor. Do not give anything to an unconscious person. 	
IF ON SKIN	 Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control center or doctor for treatment advice. 	
IF IN EYES	 Hold eye open and rinse slowly and gently with water for 15-20 minutes. Remove contact lenses, if present, after the first 5 minutes, then continue rinsing. Call a poison control center or doctor for treatment advice. 	
IF INHALED	 Move person to fresh air. If person is not breathing, call 911 or an ambulance, then give artificial respiration, preferably by mouth-to-mouth, if possible. Call a poison control center or doctor for treatment advice. 	

HOT LINE NUMBER: Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact INFOTRAC 1-800-535-5053 for emergency treatment information

PRECAUTIONARY STATEMENTS HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed or absorbed through the skin. Causes moderate eye irritation. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco or using the toilet. Remove and wash contaminated clothing before reuse. Prolonged or frequently repeated skin contact may cause allergic reactions in some individuals.

PERSONAL PROTECTIVE EQUIPMENT (PPE): APPLICATORS AND OTHER HANDLERS MUST WEAR:

- · Long-sleeved shirt and long pants
- Chemical resistant gloves made of polyethylene or butyl rubber or neoprene rubber or Viton ≥14 mil
- Shoes plus socks
- Protective eyewear such as goggles, face shield or safety glasses Follow the manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

USER SAFETY RECOMMENDATIONS

Users should:

- Wash hands before eating, drinking, chewing gum, using tobacco, or using the toilet.
- Remove clothing/PPE immediately if pesticide gets inside. Then
 wash thoroughly and put on clean clothing.
- Remove PPE immediately after handling this product. Wash the outside of gloves before removing. As soon as possible, wash thoroughly and change into clean clothing

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame. Do not mix or allow contact with water or oxidizing agents. Hazardous chemical reactions may occur.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to aquatic invertebrates. Do not apply directly to water, or to areas where surface water is present or to intertidal areas below the mean high-water mark.

Do not apply when weather conditions favor drift from treated areas. Drift and runoff from treated areas may be hazardous to aquatic organisms in water adjacent to treated areas. Do not dispose equipment washwaters or rinsate into a natural drain or water body.

This product is toxic to honeybees. The persistence of residues and potential residual toxicity of Dinotefuran in nectar and pollen suggests the possibility of chronic toxic risk to honeybee larvae and the eventual instability of the hive.

This product is toxic to bees exposed to treatment for more than 38 hours following treatment.

Do not apply this product to blooming, pollen-shedding or nectarproducing parts of plants if bees may forage on the plants during this time period, unless the application is made in response to a public health emergency declared by appropriate state or federal authorities.

Dinotefuran and its degradate, MNG, have the properties and characteristics associated with chemicals detected in ground water. The high water solubility of dinotefuran, and its degradate MNG, coupled with its very high mobility, and resistance to biodegradation indicates that this compound has a strong potential to leach to the subsurface under certain conditions as a result of label use. Use of this chemical in areas where soils are permeable, particularly where the water table is shallow, may result in groundwater contamination. Periodic monitoring of shallow groundwater in the use area is recommended.

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Resistance Management

DINOCIDE® contains a Group 4A insecticide. Insect biotypes with acquired resistance to Group 4A may eventually dominate the insect/mite population if Group 4A insecticides are used repeatedly in the same field or in successive years as the primary method of control for targeted species. This may result in partial or total loss of control of those species by DINOCIDE® or other Group 4A pesticides. To delay insecticide resistance, consider:

- Avoiding the consecutive use of DINOCIDE® or other Group 4A insecticides that have a similar target site of action, on the same insect species.
- Basing insecticide use on a comprehensive IPM program.
- Monitoring treated insect populations for loss of field efficacy.
- Contacting your local extension specialist, certified crop advisors, and/or manufacturer for insecticide resistance management and/or IPM recommendations for the specific site and resistant pest problems.

DIRECTIONS FOR USE

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

Restrictions

- Do not inject trees that are less than two inches in diameter at breast height (DBH) (6 inches in circumference).
- This product is NOT to be used on trees which will produce food within the year (365 days) following treatment unless food crop on treated tree is discarded and destroyed.
- Do not apply this product, by any application method, to linden, basswood or other Tilia species in the state of Oregon.
- Do not apply this product more than one time per year.

Read entire label, use strictly in accordance with precautionary statements and directions, and with applicable state and federal regulations. Failure to follow label directions may result in poor control or tree injury.

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 agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard (WPS), 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) and restricted-entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard.

There are no reentry or Personal Protective Equipment requirements for this product.

NON-AGRICULTURAL USE REQUIREMENTS

The requirements in this box apply to uses of this product that are NOT within the scope of the Worker Protection Standard for agricultural pesticides (40 CFR Part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries or greenhouses.

There are no reentry or personal protective clothing requirements for this product.

USE SITES

DINOCIDE® is for use on hardwood or deciduous trees, evergreens and palms grown in forests, woodlands, ornamental landscapes such as residential and commercial settings, median strips, roadways, Christmas tree farms, cemeteries, parks, and interior and exterior plantscapes.

This product is not for registered for sale or use in Nevada.

TARGET INSECTS

on Forest, Park, Landscape, Palm, and Ornamental Trees

ADELGIDS APHIDS

BLACK VINE WEEVIL ADULT BRONZE BIRCH BORER

COCONUT RHINOCEROS BEETLE[*]
COTTONWOOD LONGHORNED BORER

DOUGLAS FIR GALL MIDGE

DOUGLAS FIR CONE MOTH LARVAE

ELM LEAF BEETLE

EUCALYPTUS LONGHORNED BORER

FLATHEADED BORER (including Alder Borer and Birch

Borer; excluding Emerald Ash Borer)

JAPANESE BEETLE

LACEBUGS

LEAFHOPPERS

LEAFMINERS

LOBATE LAC SCALE[*]

MEALYBUGS

PINE TIP MOTH LARVAE

PSYLLIDS (including Lerp Psyllid)

ROYAL PALM BUGS

SCALE INSECTS (armored and soft, including Asian Cycad Scale)

SPOTTED LANTERNFLY SPRUCE BUDWORM

THRIPS WHITEFLIES

[*Not registered for sale or use in California]

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FACTORS AFFECTING APPLICATION

Applications are most effective when made prior to insect infestation and in conjunction with good cultural management practices. The species and health of the tree, as well as local environmental conditions, will determine the rate of uptake when using the Mauget System. Uptake time in the tree usually occurs within several minutes to over an hour, but trees in advanced stages of insect infestation may not respond to treatment. If DINOCIDE® is not absorbed within 24 hours (barring any applicator error or malfunction of injection device, or environmental factors affecting transpiration) the tree may be considered high risk with a possible poor chance of survival.

Environmental Conditions

This technology relies on the natural uptake rate of the tree; and thus, factors that affect the transpiration rate can greatly affect the uptake rate. Transpiration is dependent upon a number of factors, such as soil moisture, soil and air temperatures, and time of day. For optimum uptake, apply when soil moisture is adequate and soil temperatures are above 45°F. Preferred conditions for injections are morning to early afternoon hours, with warm temperatures (55-85°F /13-30°C), accompanied by low humidity, clear skies and a slight breeze. Sunny conditions along with moist soil and a well-hydrated tree will also increase the transpiration rate and will therefore improve uptake. Conversely, cool temperatures, cloudy and/or evening skies and trees under moisture stress will slow down the rate of uptake. Extreme heat and cold temperatures will adversely affect rates as well.

Trees that have healthy vascular systems will have correspondingly higher uptake rates. Trees in advanced stages of pest development may not respond to treatment, as vascular plugging caused by disease inhibits transpiration. If DINOCIDE® has not started to absorb within two hours, consider removing the device (following the proper sequence provided in the removal instructions) and drill a new hole in a different area of the trunk and inject again. The injection devices need to be evenly spaced at points on the trunk free of visible decay areas and wounds from the point of injection to where branching begins. If DINOCIDE® has not started to absorb within one hour after the second attempt, the vascular system of the tree may be too compromised for treatment or there is significant decay in that local injection area.

DO NOT inject trees that are drought stressed. Applications to drought or heat stressed trees may result in injury to tree tissue, poor treatment and subsequently poor control. Avoid treating trees that are moisture stressed or suffering from herbicide damage.

Monitor Tree Health and Pest Infestations

Preventative application is more effective than therapeutic treatment in trees showing insect infestation symptoms. Effective injection treatment is favored by a full canopy (i.e., leaves) and a healthy vascular system. Once these tissues are compromised by pest damage (larval galleries, defoliation, leaf mining, etc.), an effective and uniform application of DINOCIDE® may be difficult to achieve and subsequent control may be poor. For optimal results, treat at least 2 to 3 weeks before pests historically infest the host tree. As a result of systemic movement and longevity of DINOCIDE® in trees, the interval may be extended much earlier to 6 months should tree dormancy, adverse weather, management, asynchronous life cycle of pests, etc., allow earlier application timing.

DINOCIDE® may also be effective as a remedial treatment against some pests, such as those with slower development or if multiple life stages are susceptible to the active ingredient. Pests that attack the stem and branches may disrupt vascular tissue resulting in poor distribution in an infested tree. However, control may be achieved if larvae come into contact or feed on DINOCIDE®-treated tree tissues.

APPLICATION INSTRUCTIONS

Timing of Application:

Preventive applications approximately 2 to 4 weeks prior to the anticipated feeding damage will provide better management, but rescue treatments will also perform well with acceptable minimal damage. DINOCIDE® can also be used after damage has occurred against listed insect pests that produce large amounts of feeding debris. Focus timing and treatment on the most susceptible stage of the listed pest.

Sequential and/or 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.

DINOCIDE® may be sequentially applied with other insecticides, such as abamectin, for a more broad-spectrum treatment.

Application Tips:

To account for trunk flare, place injection sites evenly around the base of the root flare within 6 to 8 inches of the root crown. For pines and other resinous conifer species, injection sites may be higher up on the trunk (see instructions below). Follow good injection practices. Disinfect drill bit prior to use on each tree.

Tree measurement guidance

Dosages are based on the circumference OR the diameter (inches or centimeters) of the tree at breast height ("DBH"). DBH is the outside bark diameter of the trunk at 4.5 feet (1.4 m) above the ground on the uphill side of the tree. For the purposes of determining breast height, the ground includes the duff layer that may be present but does not include unincorporated woody debris that may rise above the ground line.

The diameter is determined by measuring the circumference of the tree at breast height, and dividing circumference (in inches) by three (3). To determine DBH for multi-stemmed woody ornamentals, measure the DBH of each stem or branch and add together for the total DBH per tree.



APPLICATION EQUIPMENT

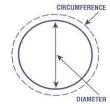
DINOCIDE® is a solvent-based insecticide for use with liquid loadable injectors. Test DINOCIDE® compatibility with the injector and its liquid contact components before regular use. Clean the interior of the injector with a solvent cleaner to remove any residual liquid from prior use. Disinfect tree injector tips between each tree injection. Use liquid loadable injector equipment/devices with care and in a safe manner, in addition to following each manufacturer's directions and precautions.

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DIRECTIONS

Number of Micro-Injection Sites:

Measure the tree at chest height in inches at a level of 4.5 feet from the soil-line using a tape measure (DBH) or an arborist diameter tape (circumference). If measuring the diameter at breast height (DBH), divide this number by two (2) to determine the number of injection sites needed. If measuring the circumference, divide this number by six (6) to determine the number of injection sites needed. If the number of injection sites results in a fraction, round down to the lower whole number.



Dosage:

Use the following dosage, depending on tree diameter:

- 1 mL per inch DBH for trees 2 to 10 inches DBH or 2 mL per injection site every 6 inches of circumference
- 1.5 mL per inch DBH for trees 10 to 36 inches DBH or 3 mL per injection site every 6 inches of circumference
- 2 mL per inch DBH for trees 36 inches DBH or 4 mL per injection site every 6 inches of circumference
- 3 mL per inch DBH for narrow-leaved evergreen trees 24 inches and above **or** 6 mL per injection site, spaced every 4 inches of circumference (DBH/1.3)

For heavier infestations and/or more persistent insects, use the 2 mL per inch rate on all tree sizes for both hardwood and narrow-leaved evergreen trees.

For narrow-leaved evergreen trees, use the closer injection interval of every 4 inches of circumference (DBH/1.3). Increase the dosage to 3.0 mL per inch with narrow-leaved evergreen trees 24 inches or greater in diameter.

Drilling the Hole:

Depending on the specific type of applicator, it may be necessary to predrill holes prior to insertion of the applicator tip into the tree. 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 avoiding root valleys.

Drill holes deep enough to allow the tree's vascular system to transport Dinocide® throughout the tree.

Make injection holes at least ½ to ¾ inch into healthy xylem (white wood) with actual depth up to 2 inches or more from the outer trunk surface depending upon the tree species and outer bark thickness.

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.

Follow good injection practices. Disinfect drill bit prior to use on each tree.

Application and Use:

Set the injector for the appropriate amount of Dinocide® per site and follow injector manufacturer's instructions.

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 (see above).

Uptake Time:

Uptake time in the tree usually occurs within several minutes to an hour dependent upon species of tree, environmental conditions, and the type of tree injector. Trees in advanced stages of insect infestation may not respond to treatment.

Retreatment

At time of initial application, make note of the health level of each tree. Reevaluate health level in treated trees at 12-month intervals to determine the need for retreatment. Consider preventive applications 12-36 months after the initial treatment. Evaluate trees in high pest pressure areas or highly valued trees for retreatment if symptoms progress or 12 months after each treatment. Repeat treatment after 12 months, if needed. Follow application procedures described above for repeat injections; new drill holes will be required for subsequent treatments. Stagger the holes equally in subsequent applications to ensure proper uptake.

STORAGE AND DISPOSAL

Do not contaminate water, food, or feed by storage or disposal.

PESTICIDE STORAGE: Keep pesticide in original container. Store in an upright position, above 45°F, in a cool, dry place.

PESTICIDE DISPOSAL: Waste resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

CONTAINER HANDLING: 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.

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

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