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TREEAZIN[®] SYSTEMIC INSECTICIDE

A solution containing azadirachtin for tree injections using the EcoJect[®] System to manage specific insect pests of trees in forest, woodlot, urban, and residential landscapes. Contains 5% azadirachtin, a botanical insecticide derived from the neem tree.

Commercial

Active Ingredient: Azadirachtin.....5%

REGISTRATION NO: 30559 PEST CONTROL PRODUCTS ACT

**KEEP OUT OF THE REACH OF CHILDREN
READ THIS LABEL BEFORE USING**

**POTENTIAL SKIN SENSITIZER
CAUTION EYE IRRITANT**



CAUTION

FLAMMABLE

Net contents: 1 L

**Registrant:
Lallemand Inc.
151 Skyway Avenue
Toronto, ON M9W 4Z5**

**Marketing company:
Lallemand Inc./BIOFOREST
59 Industrial Park Crescent, Unit 1
Sault Ste. Marie, ON P6B 5P3
1-888-236-7378**

PRECAUTIONS

KEEP OUT OF THE REACH OF CHILDREN

Potential skin sensitizer

May irritate eyes. Avoid contact with eyes.

Wear a long-sleeved shirt and long pants, or coveralls over a short-sleeved shirt and short pants, chemical-resistant gloves (such as vinyl), socks and shoes, and protective eyewear (goggles or face shield) during handling, loading, application, removal, clean-up and repair of product and injection equipment (including EcoJect pump and canisters). Entry into treated areas by bystanders is restricted until all insecticide is injected into the trees.

Practice good personal hygiene. At all times when handling TreeAzin, plan events in such a way as to minimize personal exposure. Locate wash stations with an adequate supply of fresh water on work vehicles. Wash thoroughly with soap and water after handling and before eating or smoking. Bathe or take a hot shower using plenty of soap after working with TreeAzin.

Physical and Chemical Hazards

Flammable. Do not use or store near heat or open flame.

FIRST AID

IF SWALLOWED

Call a poison control centre 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 centre or doctor. Do not give anything by mouth to an unconscious person.

IF ON SKIN/CLOTHING

Take off contaminated clothing. Rinse skin immediately with plenty of water for 15-20 minutes. Call a poison control centre 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 eye. Call a poison control centre 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 mouth to mouth if possible. Call a poison control centre or doctor for further treatment advice.

Take container, label or product name and Pest Control Product Registration Number with you when seeking medical attention.

TOXICOLOGICAL INFORMATION

No specific antidote. Employ supportive care. Treatment should be based on judgment of the physician in response to reactions of the patient.

ENVIRONMENTAL PRECAUTIONS

TOXIC to aquatic organisms.

TOXIC to bee brood. This product is systemic and is transported upwards through the tree. Bees may be exposed to residues in floral pollen and/or nectar resulting from tree injections. Applications to hardwood trees must be made post-bloom.

STORAGE

Keep in original container until use. Check any plastics for compatibility. Store in a cool, dry place, away from direct sunlight. Store this product away from food or feed. Keep container tightly sealed when not in use. Do not store below 5 degrees Celsius or above 25 degrees Celsius. Shake well before using.

DISPOSAL

DO NOT reuse this container for any purpose. This is a recyclable HDPE plastic container, and is to be disposed of at a container collection site. Contact your local distributor/dealer or municipality for the location of the nearest collection site. Before taking the container to the collection site:

1. Triple- or pressure-rinse the empty container. Dispose of rinsings in accordance with provincial requirements.
2. Make the empty, rinsed container unsuitable for further use.

If there is no container collection site in your area, dispose of the container in accordance with provincial requirements.

For information on disposal of unused, unwanted product, contact the manufacturer or the provincial regulatory agency. Contact the manufacturer and the provincial regulatory agency in case of a spill, and for clean-up of spills.

NOTICE TO USER

This pest control product is to be used only in accordance with the directions on the label. It is an offence under the Pest Control Products Act to use this product in a way that is inconsistent with the directions on the label.

DIRECTIONS FOR USE

Applications to hardwood trees must be made post-bloom.

This formulation is to be **USED ONLY WITH THE ECOJECT® SYSTEM** for tree injections against specific insect pests of forest and ornamental trees. TreeAzin is for outdoor use in forestry (including private, municipal, provincial, and national forests and woodlots) and any urban ornamental landscape (including residential areas, rural lands, farms, business and office complexes, shopping complexes, multifamily residential complexes, golf courses, airports, cemeteries, parks, ravines, playgrounds, and athletic fields).

TreeAzin is a systemic insecticide. Therefore, to ensure optimum efficacy, it is necessary to inject TreeAzin into the active sapwood. Refer to the table below to determine the appropriate application rate.

The maximum application rate is 5 mL TreeAzin per centimeter diameter of the tree at breast height (DBH). Apply TreeAzin undiluted, using the EcoJect® System. Apply into drilled holes every 15 cm of tree circumference, 15-30 cm above ground level on the trunk of each tree. Conduct no more than one application per tree per year. **It is not recommended to treat trees annually as some wounding of the tree does occur.**

Injection times will vary by tree species, weather conditions, time of year and time of day, but injection times are improved when trees are maintained and watered.

TreeAzin is not to be applied to trees that will produce food.

DO NOT contaminate irrigation or drinking water supplies or aquatic habitats by cleaning of equipment or disposal of wastes.

EcoJect® System: Instructions for Use

- Using a diameter tape or callipers, measure the diameter of the tree at breast height (DBH) in centimetres (DBH = tree diameter at 1.3 m above ground level);
- Multiply the DBH in cm by the appropriate application rate to determine the total amount of TreeAzin required for the tree;
- Each EcoJect® System canister holds 8 mL of TreeAzin. Divide the total amount required by 8 to determine the number of injection sites/canisters needed (see EcoJect System Manual for rate tables).

For example

1. The tree diameter (DBH) is 30 cm and recommended dose is 3 mL per cm DBH;
2. Multiply 30 cm x 3 mL/cm = 90 mL of TreeAzin required;
3. Divide 90 mL ÷ 8 mL/canister = 11 canisters

The Injection Hole

- Using a power drill and appropriate drill bit (e.g., 4 mm (5/32”) or 5 mm (13/64”)), drill a hole at a 20 to 45 degree downward angle into the tree approximately 15 cm to 30 cm above ground level (Brad point bits are recommended);
- The hole should extend through the bark and be approximately 1.5 - 2.0 cm deep into the sapwood of the tree.

The Injection

- Insert the narrow end of the EcoJect nozzle into the pre-drilled hole and push by hand or tap gently into place with a hammer.
- Place the EcoJect canister gently over the nozzle and push until mated.
- The canister will begin to discharge into the injection hole.
- Immediately check the area around the nozzle for signs of leakage:
 - If leakage is observed, carefully hold the nozzle in place and remove the canister.
 - Gently tap the nozzle with the hammer and replace the canister to continue the injection.
 - Repeat if leakage is still observed.
- Repeat the procedure for the rest of the injection sites.
- **When the injection is completed, wait for 1-2 minutes before removing the canister and nozzle. This allows the injection site to de-pressurize and avoids pesticide spillage.**
- Remove the empty injection canister separately from the nozzle and store for re-filling.
- Remove the injection nozzle from the tree and place in a container with 99% alcohol. This cleans and disinfects the nozzles for re-use.

Carefully read the EcoJect® System “*Directions for Use*” for further information about the System.

Application Rates in Trees

Pest	Application Rate
Agrilus Beetles	5 mL per cm DBH
Emerald Ash Borer	2 mL per cm DBH as a prophylactic treatment and 5 mL per cm DBH for attacked trees or trees >30 cm DBH
Beech Leaf Mining Weevil	3 mL per cm DBH for annual application 5 mL per cm DBH for biennial application Apply in early spring (post-bloom) or fall
Spongy Moth Tent Caterpillars Spruce Budworm Jack Pine Budworm Arborvitae Leafminers European Elm Scale Red Elm Bark Weevil Hemlock Woolly Adelgid Aphids Browntail Moth	3 mL per cm DBH
Sawflies, including Birch Leafminer and Pine False Webworm	1 mL per cm DBH

Note: DBH is the diameter of the tree at breast height (1.3 m above ground) in centimetres.