

TREE-JECT™

SAFETY DATA SHEET

EMERGENCY CALL: 1-800-424-9300 (CHEMTREC)

1. IDENTIFICATION

PRODUCT NAME: Tree-ject
DESCRIPTION: Liquid Insecticide
EPA REG. NO.: 91234-411
COMPANY IDENTIFICATION: Atticus, LLC
940 NW Cary Parkway, Suite 200
Cary, NC 27513

2. HAZARD IDENTIFICATION

DANGER

Causes serious eye damage (H318)

Causes damage to organs through prolonged or repeated exposure (H370+H372)

May damage fertility or the unborn child (H360)

Toxic in contact with skin (H311)

Toxic if inhaled (H331)

Harmful if swallowed (H302)

Very toxic to aquatic life with long lasting effects (H400+H410)



HAZARD CLASSIFICATION

Health Hazards	Category	Physical Hazards	Category
Serious eye damage/eye irritation	1	None	-
Specific target organ toxicity, single exposure	1		
Specific target organ toxicity, repeated exposure	1		
Reproductive toxicity	1B		
Acute toxicity – Dermal	3		
Acute toxicity – Inhalation	3		
Acute toxicity – Oral	4		

Physical Hazards	Category
None	-

Environmental Hazards	Category
Hazardous to the aquatic environment, short-term (acute)	1
Hazardous to the aquatic environment, long-term (chronic)	1

HAZARDS NOT REQUIRING CLASSIFICATION

Do not use or store near heat or open flame.

PRECAUTIONARY STATEMENTS

Obtain, read and follow all safety instructions before use. Do not breathe mist/spray. Do not get in eyes, on skin, or on clothing. Wash hands thoroughly after handling. Do not touch eyes. Do not eat, drink or smoke when using this product. Use only outdoors or with adequate ventilation. Wear protective clothing/eye/face protection.

(P203+P260+P262+P264+P265+P270+P271+P280)

IF IN EYES: Immediately rinse with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Get medical help. (P305+P354+P338+P317)

IF ON SKIN: Wash with plenty of water. Get emergency medical help immediately. Specific treatment see Section 4 on this document. Take off immediately all contaminated clothing and wash it before reuse. (P302+P352+P316+P321+P361+P364)

IF INHALED: Remove person to fresh air and keep comfortable for breathing. Get emergency medical help immediately. Specific treatment see Section 4 on this document. (P304+P340+P316+P321)

IF exposed or concerned: Get emergency medical help immediately. Specific treatment see section 4 on this document. (P308+P316+P321)

IF SWALLOWED: Get medical help. Rinse mouth. (P301+P317+P330)

Store in a well-ventilated place. Keep container tightly closed. Store locked up (P403+P233+P405)

Avoid release to the environment. (P273)

Collect spillage (P391)

Dispose of contents / container in accordance with local regulations. Refer to the product label for specific disposal instructions. (P501)

3. COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS #	Composition
Emamectin Benzoate	Avermectin B1,4"-deoxy-4"- (methylamino)-, (4"R)-, benzoate (salt)	155569-91-8	4.0%
Tetrahydrofurfuryl alcohol	2-Furanmethanol, tetrahydro-	97-99-4	9.5-10.5%

NOTE: Ingredients not precisely identified are proprietary or non-hazardous. Values are not product specifications.

4. FIRST AID MEASURES

Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact SafetyCall at **1-844-685-9173** for emergency medical treatment information. For chemical emergency: spill, leak, fire, exposure or accident, call CHEMTREC day or night. Within USA and Canada: 1-800-424-9300 or +1 703-527-3887 (collect calls accepted).

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 center or doctor for treatment advice.

IF ON SKIN OR CLOTHING: 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.

4. FIRST AID MEASURES (CONT.)

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.

IF SWALLOWED: Call a poison control center or doctor immediately for treatment advice. Have person sip glass of water if able to swallow. Do not induce vomiting unless told to do so by the poison control center or doctor. Do not give anything by mouth to an unconscious person.

NOTE TO PHYSICIAN: Early signs of intoxication include dilation of pupils, muscular incoordination, and muscular tremors. Vomiting within one-half hour of exposure can minimize toxicity following accidental ingestion of the product; rapidly after exposure (< 15 minutes) administer repeatedly medical charcoal in a large quantity of water or ipecac.

If toxicity from exposure has progressed to cause severe vomiting, the extent of resultant fluid and electrolyte imbalance should be gauged. Appropriate supportive parenteral fluid replacement therapy should be given, along with other required supportive measures (such as maintenance of blood pressure levels and proper respiratory functionality) 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 emamectin benzoate is believed to enhance GABA activity in animals, it is probably wise to avoid drugs that enhance GABA activity (barbiturates, benzodiazepines, valproic acid) in patients with potentially toxic emamectin benzoate exposure.

5. FIREFIGHTING MEASURES

Flash Point: >230 °F; >110 °C

Flammable Limits (LFL-UFL): Not determined.

Fire and Explosion Hazards: Not determined.

Extinguishing Medium: Use dry chemical, foam or CO₂ extinguishing media. Do not use water in a jet.

Fire Fighting Equipment: Firefighters should be equipped with self-contained positive pressure breathing apparatus and full bunker gear.

Fire Fighting Instructions: Evacuate area of all unnecessary personnel and fight fire from a safe distance upwind. Contain contaminated water / firefighting water; do not allow to enter drains or waterways. Use foam or dry chemical fire extinguishing systems to prevent environmental damage from excessive water runoff. Decontaminate fire fighting gear and personal protective equipment before reuse.

Hazardous Combustion Products: Carbon dioxide (CO₂), carbon monoxide, and irritating and/or toxic gases.

NFPA Ratings: Health – 2 / Flammability – 1 / Reactivity – 0

6. ACCIDENTAL RELEASE MEASURES

Personal Precautions: Isolate area and keep unnecessary and unprotected personnel from entering. Wear suitable personal protective clothing and equipment as described in Section 8 of this document.

Environmental Precautions: Prevent material from entering public sewer systems or any waterways. Do not flush to drain. Large spills to soil or similar surfaces may necessitate removal of topsoil. The affected area should be removed and placed in an appropriate container for disposal.

Spill Cleanup: Dike spill using suitable absorbent or impervious materials such as sand or clay. Collect and contain contaminated absorbent and place in an appropriate container for disposal. Pump any free liquid into an appropriate closed container and decontaminate tools and equipment following cleanup. Collect washings for disposal.

7. HANDLING AND STORAGE

Handling: Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

Storage: Store in a tightly closed container in a cool, dry place. Store in original container and out of reach of children, preferably in a locked storage area.

8. EXPOSURE CONTROLS / PERSONAL PROTECTION

Engineering Controls: Facilities storing or utilizing this material should be equipped with an eyewash station and a safety shower.

Protective Clothing: Wear long-sleeved shirt and long pants, chemical-resistant gloves made of barrier laminate, butyl rubber ≥14 mils, nitrile rubber ≥14 mils, neoprene rubber ≥14 mils, polyvinyl chloride (PVC) ≥14 mils, or Viton ≥14 mils, shoes and socks, and protective eyewear.

General: Follow manufacturer's instructions for cleaning/maintaining PPE. If no such instructions for washables exist, use detergent and hot water. Keep and wash PPE separately from other laundry. 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.

9. PHYSICAL AND CHEMICAL PROPERTIES

Appearance:	Aqua blue transparent, liquid
Odor:	mildly bitter
Melting/freezing point:	not determined
Boiling point/Boiling range:	not determined
Flammability:	>230 °F; >110 °C
Flammability limits (upper/lower):	not determined
Flash point:	>230 °F; >110 °C
Auto-ignition temperature:	not determined
Decomposition temperature:	not determined
pH:	4.57
Capillary viscosity:	46.8 cP at 25°C 22.1 cP at 42°C
Solubility:	not determined
Partition coefficient:	not determined
Vapor pressure:	not determined
Bulk Density:	9.00 lb/gal
Particle characteristics:	not determined

10. STABILITY AND REACTIVITY

CONDITIONS TO AVOID: None known.

CHEMICAL STABILITY: Stable under normal use and storage conditions.

INCOMPATIBILITY WITH OTHER MATERIALS: Incompatible with oxidizing agents.

HAZARDOUS DECOMPOSITION PRODUCTS: None known.

HAZARDOUS POLYMERIZATION: Will not occur.

11. TOXICOLOGICAL INFORMATION

Information presented below is from testing done on an identical or substantially similar product:

ORAL TOXICITY (rat LD₅₀): 315.80 mg/kg (calculated)

DERMAL TOXICITY (rat LD₅₀): 300.00 mg/kg (calculated)

INHALATION TOXICITY (rat LC₅₀): 0.501 mg/l (4-hours) (calculated)

EYE IRRITATION: Causes serious eye damage.

SKIN IRRITATION: N/A

SKIN SENSITIZATION: N/A

CARCINOGENICITY:

EPA: Not Listed

ACGIH: Not Listed **NTP:** Not Listed

IARC: Not Listed **OSHA:** Not Listed

MUTAGENIC TOXICITY: None known

REPRODUCTIVE TOXICITY: Developmental and reproductive toxicity observed in dosages that are toxic to mature animals.

SPECIFIC TARGET ORGAN TOXICITY-SINGLE AND REPEATED EXPOSURE: Nervous system; treatment-related clinical signs (tremors, ptosis, ataxia, mydriasis, and hunched posture) and neuropathology (neuronal degeneration in the brain and in peripheral nerves and muscle fiber degeneration) were found in most of the emamectin studies in rats, dogs, rabbits, and mice. Decreased body weight was also a frequent findings.

12. ECOLOGICAL INFORMATION

This pesticide is very highly toxic to aquatic organisms

The following information is for the active ingredient, Emamectin benzoate:

Rainbow Trout (96-hr LC₅₀): 174 µg/L; NOEC: 30 µg/L

Fathead Minnow (NOAEC): 6.5 µg/L

Daphnia (48-hr EC₅₀): 1.0 µg/L; NOEC 0.3 µg/L

Eastern Oyster (96-hour EC₅₀): 490 µg/L

Algae (96-hr EC₅₀): 3.9 µg/L; NOEC ≥3.9 µg/L

Mallard Duck (14-days LD₅₀): 46 mg a.i./kg-bw

Mallard Duck (NOEC): 40 mg a.i./kg-diet

Honeybee (LD₅₀): 0.0035 µg/bee

Honeybee (NOEC): 0.0008 µg/bee

13. DISPOSAL CONSIDERATIONS

PESTICIDE DISPOSAL: Pesticide spray mixture or rinsate that cannot be used should be disposed of in a landfill approved for pesticides. Improper disposal of excess pesticide spray mixture or rinsate is a violation of Federal law. If these wastes cannot be disposed of by the use according to label instructions, contact your State Pesticide or Environmental Control Agency or the Hazardous Waste representative at the nearest EPA Regional Office for guidance.

CONTAINER DISPOSAL: Nonrefillable container. Do not reuse or refill this container. Refer to the product label for specific container disposal instructions.

14. TRANSPORT INFORMATION

US-DOT:

Not regulated

IMDG:

Shipped internationally by vessel: UN3082, Environmentally hazardous substance, liquid, N.O.S. (emamectin benzoate), 9, PG III, Marine Pollutant

IATA:

Shipped internationally by air: UN3082, Environmentally hazardous substance, liquid, N.O.S. (emamectin benzoate), 9, PG III, Marine Pollutant

This information is not intended to convey all specific regulatory or operational requirements/information relating to this product. Transportation classifications may vary by container volume and may be influenced by regional or country variations in regulations. Additional transportation system information can be obtained through an authorized sales or customer service representative. It is the responsibility of the transporting organization to follow all applicable laws, regulations and rules relating to the transportation of the material.

15. REGULATORY INFORMATION

FIFRA –

This chemical is a pesticide product registered by the Environmental Protection Agency and is subject to certain labeling requirements under federal pesticide law. These requirements differ from the classification criteria and hazard information required for safety data sheets, and for workplace labels of non-pesticide chemicals. The following is the hazard information as required on the pesticide label:

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION. Harmful if swallowed. Causes moderate eye irritation. Avoid contact with eyes or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum, using tobacco, or using the toilet.

ENVIRONMENTAL HAZARDS

This product is highly toxic to fish, mammals and aquatic invertebrates. Do not apply directly to water, to areas where surface water is present or to intertidal areas below the mean high water mark. Do not contaminate water when disposing of equipment washwater. This product is highly toxic to bees exposed to direct treatment or residues on blooming trees. Do not apply this product to blooming trees if bees are foraging in the treatment area.

PHYSICAL OR CHEMICAL HAZARDS

Do not use or store near heat or open flame.

All pesticides are governed under the Federal Insecticide, Fungicide, and Rodenticide Act (FIFRA). The regulatory information presented below is pertinent only when this product is handled outside of the normal use and application as a pesticide. This product is excluded from listing requirements under EPA/TSCA.

SARA Title III – Section 302 Extremely Hazardous Substances

Not listed

SARA Title III – Section 311/312 Hazard Categories

Immediate (Acute), Delayed (Chronic)

SARA Title III – Section 312 Threshold Planning Quantity

Not listed

SARA Title III – Section 313 Reportable Ingredients

Not listed

CERCLA Reportable Quantity (RQ) –

Not listed

15. REGULATORY INFORMATION (CONT.)

CALIFORNIA PROP 65 STATUS –

This product does not contain any chemical known to the State of California to cause cancer or other reproductive harm.

CANADA –

This product has been classified in accordance with the hazard criteria of the Controlled Products Regulations (CPR) and the SDS contains all of the information required by CPR.

16. OTHER INFORMATION

This Safety Data Sheet (SDS) serves different purposes than and DOES NOT REPLACE OR MODIFY THE EPA APPROVED PRODUCT LABELING (attached to and accompanying the product container). This SDS provides important health, safety, and environmental information for employers, employees, emergency responders and others handling large quantities of the product in activities generally other than product use, while the labeling provides that information specifically for product use in the ordinary course.

To the extent consistent with applicable law, neither Atticus, LLC nor Seller be liable for any incidental, consequential or special damages resulting from the use or handling of this product. TO THE EXTENT CONSISTENT WITH APPLICABLE LAW, THE EXCLUSIVE REMEDY OF THE USER OR BUYER, AND THE EXCLUSIVE LIABILITY OF ATTICUS, LLC AND SELLER FOR ANY AND ALL CLAIMS, LOSSES, INJURIES OR DAMAGES (INCLUDING CLAIMS BASED ON BREACH OF WARRANTY, CONTRACT, NEGLIGENCE, TORT, STRICT LIABILITY OR OTHERWISE) RESULTING FROM THE USE OR HANDLING OF THIS PRODUCT, SHALL BE THE RETURN OF THE PURCHASE PRICE OF THE PRODUCT OR, AT THE ELECTION OF ATTICUS, LLC OR SELLER, THE REPLACEMENT OF THE PRODUCT.

SDS Version: 1.0

Effective Date: 1/28/2025



Manufactured for:
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