



Safety Data Sheet

1 IDENTIFICATION

Product Identifier:

Product Name: Retriever® Insecticide
EPA Reg. No.: 69117-14
Synonyms: None
Recommended Use: Tree injection treatment of listed pests in ornamental and non-bearing fruit and nut trees
Use Restrictions: Do not inject food bearing plants. Do not use this product for woodland or forest management.
Supplier Information: ArborSystems, Inc. d/b/a ArborSystems
10168 L. Street
Omaha, NE 68127 USA
Toll Free: 800.698.4641
Phone: 402.339.4459
Fax: 402.339.5011
Email: mike@arborsystems.com
Website: www.arborsystems.com

Emergency Phone Number: 1.800.222.1222 (Medical)

2 HAZARDS IDENTIFICATION

Hazards Statements: Harmful if swallowed. Harmful to aquatic life.



3 COMPOSITION / INFORMATION ON INGREDIENTS

Common Name	Chemical Name	CAS Number	Composition
Acetamiprid	(E)-N-[(6-chloro-3-pyridyl)methyl]-N-cyano-N-methyl acetamidine	135410-20-7	8.5%

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 the 1-800-222-1222 for emergency medical treatment information.

If Swallowed: Immediately call a doctor or poison control center. Do not induce vomiting unless told to do so by a poison control center or doctor.

Have person sip a glass of water if able to swallow. Do not give anything by mouth to an unconscious person.

Note to Physician: There is no specific antidote. All treatment should be based on observed signs and symptoms of distress in the patient.

Overexposure to materials other than this product may have occurred.

5 FIRE-FIGHTING MEASURES

Flash Point: > 110°C (> 230°F)

Fire and Explosion Hazards: Thermal decomposition may produce toxic fumes (see Section 10).

Extinguishing Medium: Water fog, foam, dry chemical or carbon dioxide (CO₂).

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. Foam or dry chemical fire extinguishing systems are preferred to prevent environmental damage from excessive water runoff.

Combustion Hazards: The potential for fire or explosion is low as the solvents have a low vapor pressure. However, this product when heated or atomized in the presence of an ignition source may cause explosion.

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

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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 earth, 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 breathing vapors or spray mist. Avoid contact with skin or clothing. Wash hands thoroughly with soap and water after handling and before eating, drinking, chewing gum, or using tobacco. Keep out of reach of children and domestic animals.

Storage: Do not store in or around the home. Store unused product in a cool, ventilated, dry, locked area. Do not allow prolonged storage in areas where temperatures frequently exceed 115°F (46°C). NEVER TRANSFER THIS PRODUCT TO ANOTHER CONTAINER FOR STORAGE.

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: Applicators and other handlers must wear long-sleeved shirt and long pants, chemical resistant gloves, and shoes plus socks.

General: Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate. Do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

9 PHYSICAL AND CHEMICAL PROPERTIES

PHYSICAL STATE:	Dark green liquid
ODOR:	Slightly sour
FLASHPOINT:	> 110°C (> 230°F)
pH:	4.8 (corrected to 25°C)
DENSITY:	9.14 lbs./gal (@ 25°C)
SOLUBILITY:	Soluble

10 STABILITY AND REACTIVITY

Conditions to Avoid: Excessive heat, do not store near heat or flame.

Chemical Stability: Stable under all normal use and storage conditions.

Incompatibility with Other Materials: Strong oxidizing agents, acids and bases.

Hazardous Decomposition Products: This product is chemically stable and no hazardous reactions should occur if stored and handled as prescribed / indicated. When thermally decomposed, may release oxides of carbon, hydrogen, nitrogen, hydrogen cyanide, and hydrochloric acid.

Hazardous Polymerization: Will not occur.

11 TOXICOLOGICAL INFORMATION

Oral Toxicity (RAT LD₅₀): 500 – 2,000 mg/kg

Dermal Toxicity (RAT LD₅₀): > 2,000 mg/kg

Inhalation Toxicity (RAT LC₅₀): > 4.81 mg/L (4-hour)

Eye Irritation: Rabbit - Non irritating

Skin Irritation: Rabbit - Non irritating

Skin Sensitization: Guinea pig – Not a contact sensitizer

Carcinogenicity:

EPA: Not Listed

NTP: Not Listed

ACGIH: Not Listed

OSHA: Not Listed

IARC: Not Listed

Mutagenic Toxicity: No evidence of mutagenic effects during *in vivo* and *in vitro* assays.

Reproductive Toxicity: Not known to cause reproductive or birth defects at normal exposure levels.

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12 ECOLOGICAL INFORMATION (NON-MANDATORY)

The following information is for the active ingredient, Acetamiprid:

Aquatic Toxicity

Carp (96-hour LC_{50}): > 100 mg/L

Daphnia (48-hour EC_{50}): 49.8 mg/L

Algae (72-hour EC_{50}): > 98.3 mg/L

Avian Toxicity

Bobwhite Quail (LC_{50}): > 5,000 mg/kg

Mallard Duck (LD_{50}): 98 mg/kg

Other Toxicity

Honey Bee (oral LD_{50}): > 14.5 µg/bee

13 DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Pesticide Disposal: Contamination with this product will render water, food or feed unfit for human or animal consumption. Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

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

14 TRANSPORT INFORMATION (NON-MANDATORY)

U.S. DOT:

Not regulated by DOT.

15 REGULATORY INFORMATION (NON-MANDATORY)

FIFRA (Federal Insecticide, Fungicide and Rodenticide Act, as Amended): This chemical is a pesticide product registered by the United States 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 (SDSs) and for workplace labels of non-pesticide chemicals. The hazard information required on the pesticide label is reproduced below. The pesticide label also includes other important information including Directions for Use.

Precautionary Statements

Hazards to Humans & Domestic Animals

CAUTION: Harmful if swallowed, absorbed through skin or inhaled. Avoid breathing vapors or spray mist. Avoid contact with skin or clothing.

Personal Protective Equipment ("PPE")

Applicators and other handlers must wear:

- Long-sleeved shirt and long pants;
- Chemical-resistant gloves made of barrier laminate, butyl rubber \geq 14 mils, nitrile rubber \geq 14 mils, neoprene rubber \geq 14 mils, polyvinyl chloride (PVC) \geq 14 mils or viton \geq 14 mils;
- Shoes plus socks.

Discard clothing and other absorbent materials that have been drenched or heavily contaminated with this product's concentrate; do not reuse them. Follow manufacturer's instructions for cleaning/maintaining PPE. If there are no such instructions for washables, use detergent and hot water. Keep and wash PPE separately from other laundry.

When handlers use closed systems, enclosed cabs or aircraft in a manner that meets the requirements listed in the Worker Protection Standard ("WPS") for agricultural pesticides (40 CFR 170.240(d)(4-6)), the handler PPE requirements may be reduced or modified as specified in the WPS.

User Safety Recommendations

Users should:

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

Physical or Chemical Hazards

Do not mix or allow product to come into contact with oxidizing agents; hazardous chemical reaction may occur.

ENVIRONMENTAL HAZARDS

This product is toxic to wildlife. This product is toxic to bees and other pollinating insects exposed to direct treatment. Do not apply this product while bees or other pollinating insects are foraging in the treated area. Risk to managed bees and native pollinators from contact with pesticide spray or residues can be minimized when applications are made at dawn or dusk or when temperature is below 55°F at the site of application. Do not apply

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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 or rinsate. Do not contaminate water used for irrigation or domestic purposes.

Endangered Species Protection Requirements

This product may have effects on endangered species. When using this product you must follow the measures contained in the Endangered Species Protection Bulletin for the county in which you are applying the product. To obtain Bulletins, no more than six months before using this product, consult <http://www.epa.gov/espp/> or call 1-844-447-3813. You must use the Bulletin valid for the month in which you will apply the product.

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

SARA Title III – Section 312 Threshold Planning Quantity

The threshold planning quantity (TPQ) for this product treated as a mixture is 10,000 lbs. This product contains no ingredients with a TPQ of less than 10,000 lbs.

SARA Title III – Section 313 Reportable Ingredients

None

CERCLA Reportable Quantity (RQ) –

None

California Prop 65 Status –

This product does not contain any chemicals known to the state of California to cause cancer or 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

SDS Information:

Date Prepared: 12/29/2022

Version: 2

Retriever® is a registered trademark of ArborSystems

DISCLAIMER

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.

Although the information and recommendations set forth herein (hereinafter "Information") are presented in good faith and believed to be correct as of the date hereof, ArborSystems makes no representations as to the completeness or accuracy thereof. Information is supplied upon the condition that the persons receiving same will make their own determination as to its suitability for the purposes prior to use. In no event will ArborSystems be responsible for damages of any nature whatsoever resulting from the use of or reliance upon information. NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OF ANY OTHER NATURE ARE MADE HEREUNDER WITH RESPECT TO INFORMATION OR TO THE PRODUCT TO WHICH INFORMATION REFERS.