

Safety Data Sheet

1 IDENTIFICATION

Product Identifier:

Product Name: Pointer® Insecticide
EPA Reg. No.: 69117-1
Synonyms: None

Recommended Use: Tree injected systemic insecticide

Use Restrictions: Do not inject food bearing plants. Do not apply this product by any application method to linden, basswood or other *Tilia* species in the State of Oregon.

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 Classification: This mixture is considered hazardous by the 2012 OSHA Communication Standard (29 CFR 1910.1200).

Acute toxicity-Oral	Category 4
Serious eye damage/eye irritation	Category 2A
Reproductive toxicity	Category 1B
Flammable liquids	Category 4

GHS Label Elements, including precautionary statements, Emergency Overview:

Signal Word: Danger

Hazards Statements: Harmful if swallowed. Causes serious eye irritation. May damage fertility or the unborn child. Combustible liquid.



Appearance: Amber

Physical state: Liquid

Odor: Alcohol

Precautionary Statements:

Prevention: Obtain special instructions before use. Do not handle until all safety precautions have been read and understood. Use personal protective equipment as required. Thoroughly wash face, hands and any exposed skin after handling. Do not eat, drink or smoke when using this product. Wear eye/face protection.

Response: If exposed or concerned, get medical advice/attention.

Eyes: If in eyes, rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing if eye irritation persists. Get medical advice/attention.

Ingestion: If swallowed, call a poison control center or doctor/physician if you feel unwell. Rinse mouth.

Storage: Store locked up.

Disposal: Dispose of contents/container to an approved waste disposal plant.

Hazards Not Otherwise Classified: Not Applicable

Unknown Toxicity: 0% of the mixture consists of ingredient(s) of unknown toxicity.

Other Information: Toxic to aquatic life with long-lasting effects. Prolonged or repeated contact may dry skin and cause irritation.

Interactions with Other Chemicals: No information available.

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3 COMPOSITION / INFORMATION ON INGREDIENTS

Chemical Name	CAS Number	Weight - %	Trade Secret
Tetrahydrofurfuryl alcohol	97-99-4	60 to 100	*
1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-	138261-41-3	3 to 7	*
Acrylic acid	79-10-7	0.1 to 1	*

*The exact percentage (concentration) of composition has been withheld as a trade secret.

4 FIRST-AID MEASURES

General Advice: Show this SDS to the doctor in attendance.

Eye Contact: Immediately rinse with plenty of water, also under the eyelids, for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Keep eye wide open while rinsing. Do not rub affected area. Get medical attention if irritation develops and persists.

Skin Contact: Wash with soap and water.

Inhalation: Remove to fresh air. If not breathing, give artificial respiration. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation. If breathing is difficult, trained personnel should give oxygen.

Ingestion: Immediately rinse mouth and drink plenty of water. Never give anything by mouth to an unconscious person. Do **not** induce vomiting. Call a physician.

Self-protection of the first aider: Ensure that medical personnel are aware of the material(s) involved. Take precautions to protect oneself and prevent spread of contamination. Avoid direct contact with skin. Use barrier to give mouth-to-mouth resuscitation.

Most Important Symptoms and Effects: Burning sensation.

Note to Physician: Treat symptomatically.

5 FIRE-FIGHTING MEASURES

Suitable Extinguishing Media: Water spray, fog or regular foam. Move containers from fire area if you can do so without risk. Dike fire control water for later disposal; do not scatter the material. Use water spray or fog; do not use straight streams.

Unsuitable Extinguishing Media: CAUTION: Use of water spray when fighting fire may be inefficient.

Specific Hazards Arising from this Mixture: Runoff may pollute waterways.

Uniform Fire Code: Irritant: Liquid Combustible Liquid: III-A

Hazardous Combustion Products: Carbon oxides.

Sensitivity to Mechanical Impact: No

Sensitivity to Static Discharge: Yes

Protective Equipment and Precautions for Firefighters: As in any fire, wear self-contained breathing apparatus, pressure-demand, MSHA/NIOSH-approved (or equivalent) and full protective gear

6 ACCIDENTAL RELEASE MEASURES

Personal Precautions: Stop leak if you can do so without risk.

Other Information: Do not get water inside containers.

Environmental Precautions: Prevent entry into waterways, sewers, basements or confined areas.

Containment Methods: Cover with plastic sheet to prevent spreading. Absorb or cover with dry earth, sand or other non-combustible material and transfer to properly labeled containers.

Cleanup Methods: Pick up and transfer to properly labeled containers. Take precautionary measures against static discharges. Dam up. Soak up with inert absorbent material.

7 HANDLING AND STORAGE

Precautions for Safe Handling: Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. Do not eat, drink or smoke when using this product. Take off contaminated clothing and wash before reuse. Use personal protection equipment. Keep away from heat/sparks/open flames/hot surfaces. No smoking. Take precautionary measures against static discharges. Use with local exhaust ventilation. Do not breathe dust/fume/gas/mist/vapors/spray.

Storage: Keep containers tightly closed in a dry, cool and well-ventilated place. Keep out of the reach of children. Store locked up. Keep away from heat, sparks, flame and other sources of ignition (i.e., pilot lights, electric motors and static electricity). Keep in properly labeled containers. Store in accordance with the applicable national and local regulations.

Incompatible Products: None known based on information supplied.

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8 EXPOSURE CONTROLS / PERSONAL PROTECTION

Control Parameters - Exposure Guidelines

The following ingredients are the only ingredients of the product above the cut-off level (or level that contributes to the mixture's hazard classification) that have an exposure limit applicable in the region for which this SDS is intended or other recommended limit. At this time, the other relevant constituents have no known exposure limits from the sources listed here.

Chemical Name / CAS Number	ACGIH TLV	OSHA PEL	NIOSH IDLH
Acrylic acid / 79-10-7	TWA: 2 ppm S*	(vacated) TWA: 10 ppm (vacated) TWA: 30 mg/m ³ (vacated) S*	TWA: 2 ppm TWA: 6 mg/m ³

ACGIH TLV: American Conference of Governmental Industrial Hygienists Threshold Limit Value; OSHA PEL: Occupational Safety and Health Administration Permissible Exposure Limits; NIOSH IDLH: National Institute of Occupational Safety and Health Immediately Dangerous to Life or Health.

Other Exposure Guidelines: Vacated limits revoked by the Court of Appeals decision in AFL-CIO v. OSHA, 995 F.2d 962 (11th Cir., 1992).

Appropriate Engineering Controls – Engineering Measures: Showers, eyewash stations and ventilation systems.

Individual Protection Measures – Personal Protective Equipment:

Eye/Face: If splashes are likely to occur: None required for consumer use. Tight sealing safety goggles.

Skin/Body: Wear protective gloves and protective clothing.

Respiratory: No protective equipment is needed under normal use conditions. If exposure limits are exceeded or irritation is experienced, ventilation and evacuation may be required.

Hygiene Measures: Handle in accordance with good industrial hygiene and safety practices. Avoid contact with skin, eyes or clothing. Wear suitable gloves and eye/face protection. Do not eat, drink or smoke when using this product. Wash hands before breaks and immediately after handling the product. Do not allow contaminated work clothing out of the workplace. Regular cleaning of equipment, work area and clothing is recommended.

9 PHYSICAL AND CHEMICAL PROPERTIES

Auto-ignition temperature:	N/D	Partition coefficient: n-octanol/water:	N/D
Color:	Amber	pH:	N/A
Decomposition temperature:	N/D	Physical state:	Liquid
Evaporation rate:	N/D	Relative density:	8.94 lbs/gal (1.079 g/mL)
Flammability (solid, gas):	N/A	Solubility(ies):	Complete in water
Flash point:	165°F	Upper/lower explosive limits:	N/D
Freezing point:	N/D	Upper/lower flammability limits:	N/D
Initial boiling point and range:	N/D	Vapor pressure:	N/D
Melting point:	N/A	Viscosity:	< 150 cPS
Odor:	Alcohol	N/A = Not Applicable	N/D = Not Determined

10 STABILITY AND REACTIVITY

Reactivity: No data available.

Chemical Stability: Stable under recommended storage conditions.

Possibility of Hazardous Reactions: None under normal processing.

Hazardous Polymerization: Does not occur.

Conditions to Avoid: Heat, flames and sparks.

Incompatible Materials: None known based on information provided.

Hazardous Decomposition Products: Carbon oxides.

11 TOXICOLOGICAL INFORMATION

Product Information:

Inhalation: Specific test data for the substance or mixture is not available. May cause irritation of respiratory tract.

Eye Contact: Corneal involvement or irritation cleared in 8 to 21 days.

Skin Contact: Primary irritation score was 0.4 (mild or slight irritation). Not a primary irritant.

Ingestion: Specific test data for the substance or mixture is not available. Ingestion may cause irritation to mucous membranes. Ingestion may cause gastrointestinal irritation, nausea, vomiting and diarrhea. Harmful if swallowed, based on components.

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Component Information

Chemical Name / CAS Number	Oral LD50	Dermal LD50	Inhalation LD50
Tetrahydrofurfuryl alcohol / 97-99-4	= 1600 mg/kg (rat)	-	-
1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro- / 138261-41-3	= 410 mg/kg (rat)	-	-
Acrylic acid / 79-10-7	= 913 mg/kg (rat) = 33500 µg/kg (rat)	= 295 mg/kg (rabbit) = 280 µL/kg (rabbit)	= 3.6 mg/L (rat) 4h -11.1 mg/L (rat) 1h

Information on Toxicological Effects:

Symptoms: May cause redness and tearing of eyes.

Delayed and immediate effects as well as chronic effects from short and long-term exposure:

Sensitization: No information available.

Mutagenic Effects: No information available.

Carcinogenicity: The table below indicates whether each agency has listed any ingredients as a carcinogen:

Chemical Name	ACGIH	IARC	NTP	OSHA
1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro- / 138261-41-3		Group 2A		X
Acrylic acid / 79-10-7		Group 3		

ACGIH: American Conference of Governmental Industrial Hygienists; **IARC:** International Agency for Research on Cancer; **NTP:** National Toxicology Program; **OSHA:** Occupational Safety and Health Administration. **IARC Group 2A:** Probably carcinogenic to humans; **Group 3:** Not classifiable as to carcinogenicity in humans. **OSHA "X":** Present.

Reproductive Toxicity: Contains a known or suspected reproductive toxin.

STOT-single exposure: No information available.

STOT-repeated exposure: No information available.

Chronic Toxicity: No known effect based on information supplied. Contains a known or suspected carcinogen and reproductive toxin. Possible risk of irreversible effects.

Target Organ Effects: Eyes, reproductive system, spleen and testes.

Aspiration Hazard: No information available.

Numerical Measures of Toxicity – Product Information:

The following value is calculated based on Chapter 3.1 of the GHS document: ATEmix (oral): 1,399.00 mg/kg

12 ECOLOGICAL INFORMATION (NON-MANDATORY)

Exotoxicity

Toxic to aquatic life with long-lasting effects.

Chemical Name / CAS Number	Toxicity to Algae	Toxicity to Fish	Toxicity to Microorganisms	<i>Daphnia magna</i> (water flea)
Tetrahydrofurfuryl alcohol / 97-99-4		48h LC ₅₀ =3400 mg/L (<i>Chaetodonoides</i>)		
Acrylic acid / 79-10-7	72h EC ₅₀ =0.04 mg/L (<i>Desmodesmus subspicatus</i>) 96h EC ₅₀ =0.17 mg/L (<i>Pseudokirchneriella subcapitata</i>)	96h LC ₅₀ =222 mg/L (<i>Brachydanio rerio</i>)		24h LC ₅₀ =270 mg/L 48h EC ₅₀ =95 mg/L

Persistence and Degradability: No information available.

Bioaccumulation

Chemical Name / CAS Number	Log Pow
Acrylic acid / 79-10-7	0.46

Other Adverse Effects: No information available.

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13 DISPOSAL CONSIDERATIONS (NON-MANDATORY)

Waste Treatment Disposal Methods: This material, as supplied, is a hazardous waste according to Federal regulations (40 CFR Part 261).

Contaminated Packaging: Dispose of contents/containers in accordance with local regulations.

US EPA Waste Number: U008

This product contains the following substance that is listed with the State of California as a hazardous waste:

Chemical Name / CAS Number	California Hazardous Waste
1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro- / 138261-41-3	Toxic

14 TRANSPORT INFORMATION (NON-MANDATORY)

DOT:

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S.

Emergency Response Guide Number: 151

TGD, MEX and ICAO:

UN-No.: UN2902

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

Packing Group: III

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III

IATA:

UN-No.: UN2902

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

Packing Group: III

ERG Code: 6L

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III

IMDG/IMO:

UN-No.: UN2902

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

EmS-No.: F-A, S-A

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III, Marine Pollutant

RID:

UN-No.: UN2902

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

Packing Group: III

Classification Code: T6

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III, Environmentally Hazardous

ADR:

UN-No.: UN2902

Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.

Hazard Class: 6.1

Packing Group: III

Classification Code: T6

Tunnel Restriction Code: (E)

Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III, (E), Environmentally Hazardous

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ADN:
UN-No.: UN2902
Proper Shipping Name: Pesticide, Liquid, Toxic, N.O.S.
Hazard Class: 6.1
Packing Group: III
Classification Code: T6
Special Provisions: 276, 61, 648, 802
Description: UN2902, Pesticide, Liquid, Toxic, N.O.S. (1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl)methyl]-4,5-dihydro-N-nitro-, Acrylic Acid), 6.1, III, Environmentally Hazardous
Hazard Labels: 6.1
Limited Quantity: 5 L
Ventilation: VE02

15 REGULATORY INFORMATION (NON-MANDATORY)

International Inventories:

TSCA: Not Determined

DSL: Not Determined

IECSC

TSCA: *United States Toxic Substances Control Act Section 8(b) Inventory*; **DSL/NDL:** *Canadian Domestic Substances List/Non-Domestic Substances List*

U.S. Federal Regulations:

SARA 313: Section 313 of Title III of the Superfund Amendments and Reauthorization Act of 1986 ("SARA"). This product contains the following chemical that is subject to the reporting requirements of the Act and Title 40 of the Code of Federal Regulations, Part 372:

Chemical Name	CAS Number	Weight %	SARA 313 Threshold Value %
Acrylic acid	79-10-7	0.1 to 1	1.0

SARA 313.312 Hazard Categories:

Acute Health Hazard: Yes

Chronic Health Hazard: Yes

Fire Hazard: Yes

Sudden Release of Pressure Hazard: No

Reactive Hazard: No

CWA (Clean Water Act): This product contains the following substance regulated as pollutants pursuant to the CWA (40 CFR 122.21 and 122.42):

CERCLA (Comprehensive Environmental Response Compensation and Liability Act): This material, as supplied, contains the following substance regulated as hazardous under CERCLA (40 CFR 302):

Chemical Name / CAS Number	Hazardous Substances RQs	Extremely Hazardous Substances RQs	RQ
Acrylic acid / 79-10-7	5000 lbs		RQ 5000 lbs final RQ RQ 2270 kg final RQ

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

WARNING: Harmful if swallowed, inhaled or absorbed through skin. Causes substantial but temporary eye injury. Do not get in eyes or on clothing. Wear safety glasses. Thoroughly wash with soap and water after handling. Remove contaminated clothing and wash clothing before reuse.

First Aid: If Swallowed: Immediately call a poison control center or doctor for treatment advice. Have person sip a 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. **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 further treatment advice. **If on Skin or Clothing:** Take off contaminated clothing. Immediately rinse skin 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 eye. Call a poison control center or doctor for treatment advice.

Have the product container or label with you when calling a poison control center or doctor, or going for treatment.

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Environmental Hazards: This product is highly toxic to fish 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 washwaters or rinsate. This product is highly toxic to bees exposed to direct treatment or residues on blooming plants or weeds. Do not apply this product to blooming plants or weeds if bees are foraging the treatment area.

U.S. State Regulations:

California Proposition 65: This product does not contain any Proposition 65 chemicals.

U.S. State Right-to-Know Regulations

Chemical Name / CAS Number	Illinois	Massachusetts	New Jersey	Pennsylvania	Rhode Island
Tetrahydrofurfuryl alcohol / 97-99-4		X		X	
1H-Imidazol-2-amine, 1-[(6-chloro-3-pyridinyl) methyl]-4,5-dihydro-N-nitro- / 138261-41-3	X				
Acrylic acid / 79-10-7	X	X	X	X	X

International Regulations:

Canada WHMIS Class: Not Determined

16 OTHER INFORMATION

NFPA:

Health Hazards: 2

Flammability: 2

Instability: 0

Physical and Chemical Hazards-Personal Protection: X

HMIS:

Health Hazards: 2

Flammability: 2

Physical Hazard: 0

Physical and Chemical Hazards-Personal Protection: X

SDS Information:

Date Prepared: 01/03/2023

Version: 2

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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. Use, storage and disposal of pesticide products are regulated by the EPA under the authority of FIFRA (Federal Insecticide, Fungicide and Rodenticide Act, as Amended) through the product labeling. All necessary and appropriate precautionary, use, storage and disposal information is set forth on that labeling. It is a violation of Federal law to use this product in a manner inconsistent with its labeling.

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