
1. PRODUCT and COMPANY IDENTIFICATION

Product Name: Molt-X[™] Botanically Based Insecticide/Nematicide

EPA Reg. No.: 68539 - 11

General Use: Insecticide and nematicide.

Manufactured For:
BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564

Emergency Telephone Numbers
BioWorks, Inc: 800-877-9443
CHEMTREC: 800-424-9300

2. COMPOSITION, INFORMATION ON INGREDIENTS

Product contains the following ingredients:

COMPONENT	CAS No.	% by weight	OSHA PEL	ACGIH TLV
Azadirachtin	11141-17-6 95507-03-2	3.00	N/E	N/E
Other ingredients	confidential	97.00	N/E	N/E

N/E = Not Established

3. HAZARDS IDENTIFICATION

Overview: Dark brown liquid with faint garlic odor. Harmful if absorbed through skin. Toxic to fish.

Potential Acute Health Effects:

Eyes: Causes moderate eye irritation.
Skin: Harmful if absorbed through skin.

4. EMERGENCY AND FIRST AID MEASURES

Eye Contact: Flush eyes with plenty of water. Call physician if irritation persists.
Skin Contact: Wash with plenty of soap and water. If irritation persists, get medical attention.
Inhalation: Remove victim to fresh air. If not breathing, give artificial respiration, preferable mouth-to-mouth. Get medical attention.
Ingestion: Immediately dilute the swallowed product by giving large quantities of water, but do not induce vomiting. If vomiting occurs, give fluids again. Have a physician determine if condition of patient will permit induction of vomiting or evacuation of stomach. Never give anything by mouth to an unconscious person. Contact a physician immediately.

5. FIRE FIGHTING MEASURES

Flash Point: Greater than 200° F/100° C
Flammable Limits: Lower – Not established, Higher – Not established
Autoignition Temperatures: Not established
Extinguishing Media: Use carbon dioxide for small fires; polymer foam for large fires
Firefighting instructions: Evacuate personnel to a safe area. Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus and full protective equipment.

Unusual fire and explosion: None known
Hazardous decomposition: Thermal decomposition will produce oxides of carbon, nitrogen, etc.

6. ACCIDENTAL RELEASE MEASURES

General: Consult an expert on the disposal of recovered material. Ensure disposal is in compliance with government requirements and ensure conformity of local disposal regulations. Notify the appropriate authorities immediately. Take all additional action necessary to prevent and remedy the adverse effects of the spill.

Specific: Evacuate personnel, thoroughly ventilate area, use self-contained breathing apparatus and protective clothing. Dike spill. Soak up with sawdust, sand or other absorbent material, taking care to not generate dust. Shovel or sweep up clean-up material and dispose as waste following local regulations. Scrub contaminated area with detergent and water. Prevent liquid from entering sewers, waterways or low areas. Product is not regulated under RCRA or CERCLA.

7. HANDLING and STORAGE

Handling: Wear personal protective equipment: long-sleeved shirt and long pants, chemical-resistant gloves and shoes plus socks. Clean protective clothing as needed. Do not mix the material with water except for normal preparation of application. Avoid heat, sparks and open flame.

Storage: Store in a cool, dry place. Do not freeze. Keep container closed when not in use. Do not store or consume food, drink or tobacco in areas where they may become contaminated with this material. Keep away from children and pets.

8. EXPOSURE CONTROLS, PERSONAL PROTECTION

Engineering controls: Keep container closed when not in use. Do not consume food, drink or tobacco in the areas where they may become contaminate with this material.

Personal Protection:

Eyes: Wear safety glasses or goggles. Have an eye wash station available.
Body: Wear long-sleeved shirt, long pants and shoes plus socks
Hands: Wear chemical-resistant gloves
Respiratory: No respiratory protection required under normal conditions of use.

9. PHYSICAL and CHEMICAL PROPERTIES

Physical State:	Liquid	Solubility:	Water dispersible
Appearance:	Dark brown liquid	Freezing Point:	-10° C
Odor:	Characteristic garlic-like odor	Boiling Point:	185 – 220° C
Vapor Density:	Not available	Viscosity:	530 cP (27° C)
Specific Gravity:	1.08 @ 20° C	pH at 20° C:	6.20

10. STABILITY and REACTIVITY

Stability: Stable at normal temperatures. Avoid high temperatures and direct sunlight during storage.

Hazardous Polymerization: Will not occur.

Incompatibility: Incompatible with acid, alkaline and oxidizing substances.

Hazardous decomposition: Thermal decomposition will produce oxides of carbon, nitrogen, etc.

11. TOXICOLOGICAL INFORMATION

Acute inhalation:	LC ₅₀ = undeterminable
Acute dermal:	LD ₅₀ = less than 2000 mg/kg (rabbit)
Acute oral:	LD ₅₀ = less than 5,000 mg/kg (rat)
Primary eye irritation:	Not an irritant (rabbit)
Sensitization:	Not a sensitizer (guinea pig)
Genetic effects:	None
Developmental Toxicity:	None

12. ECOLOGICAL INFORMATION

Ecotoxicity:	<ul style="list-style-type: none">• Moderately toxic to fish• Slightly toxic to aquatic invertebrates• Practically non-toxic to birds
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13. DISPOSAL CONSIDERATIONS

Treatment, storage, transportation and disposal must be in accordance with applicable federal, state/provincial, and local regulations. Do not flush to surface water or sanitary sewer system.

14. TRANSPORT INFORMATION (not meant to be all inclusive)

D.O.T. Classification:	Not regulated
IMO/IMDG Classification:	Not regulated
IATA Classification:	Not regulated

15. REGULATORY INFORMATION (not meant to be all inclusive)

US Federal Regulations:	
Product Information:	This product is not considered hazardous.
FIFRA, EPA Reg. No.	71038-4-68539
SARA 311/312:	Not regulated
SARA 313:	No reportable quantities of toxic chemical(s) subject to the reporting requirements of Section 313 of SARA Title III and of 40 CFR 372 are present.

16. OTHER INFORMATION

Disclaimer and Limitation of Liability

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