



Molt-X®

Revision Date: January 22, 2013

SAFETY DATA SHEET

1. IDENTIFICATION

Product Name: Molt-X® Botanically Based Insecticide/Nematicide
General Use: Insecticide and Nematicide.

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

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

2. 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.

3. 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

4. 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 200o F/100o 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

Appearance: Dark brown liquid

Odor: Characteristic garlic-like odor

Vapor Density: Not available

Specific Gravity: 1.064 at 20°C

Solubility: Water dispersible

Freezing Point: -10°C

Boiling Point: 185 – 220°C

Viscosity: 530 cP (27°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: LC50 = undeterminable

Acute dermal: LD50 = less than 2000 mg/kg (rabbit)

Acute oral: LD50 = 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

Moderately toxic to fish

Slightly toxic to aquatic invertebrates

Practically non-toxic to birds

13. DISPOSAL CONSIDERATIONS

Wastes resulting from the use of this product may be disposed of on site or at an approved waste disposal facility.

14. TRANSPORT INFORMATION

Land: ADR / RID Class: Not controlled under ADR (Europe)
Water: IMDG Class: Not controlled under IMDG
Air: IATA - DGR Class: Not controlled under IATA

OTHER:

US DOT: Not Regulated

15. REGULATORY INFORMATION

UNITED STATES (EPA Reg. No. 68539-11)

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 (SDS), 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 information, including direction for use.

CAUTION

Causes moderate eye irritation.
Harmful if absorbed through skin.
Toxic to fish.

Product Information: This product is not considered hazardous.

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

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

TELEPHONE: 800.877.9443

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