August 20, 2012

BioWorks, Inc.
100 Rawson Road, Suite 205
Victor, New York 14564
Attn: Jamie Aggas

Subject: Notification - Minor product labeling changes per PR Notice 98-10.

Product Brand Name: Molt-X.
Your Submission dated June 18, 2012.

Dear Jamie Aggas:

The Biopesticides and Pollution Prevention Division is in receipt of your application for Notification under Pesticide Registration Notice (PRN) 98-10 dated above. A screen of this request has been conducted for its applicability under PRN 98-10, and it has been determined that the action requested falls within the scope of this Notice. Our records have been duly noted, and the application, (EPA Form 8570-1) has been stamped “Notification Accepted” and will be placed accordingly in our records.

Three (3) copies of final printed labeling must be submitted to the Agency before your product as modified, may be sold or distributed [PR Notice 82-2 and 40 CFR 156.10(a) (6)].

If you have any questions regarding this action, you may contact Mr. Sylvester George at (703) 603-0688 or via e-mail at george.sylvester@epa.gov.

Sincerely,

Linda A. Hollis

Linda A. Hollis, Chief
Biochemical Pesticide Branch
Biopesticides and Pollution Prevention Division (7511P)
Application for Pesticide - Section I

1. Company/Product Number
BioWorks, Inc./68539-11

2. EPA Product Manager
Jeannine Kausch

3. Proposed Classification
[X] None  [ ] Restricted

4. Company/Product Name
BioWorks, Inc./Molt-X

5. Name and Address of Applicant (Include ZIP Code)
BioWorks, Inc.
100 Rawson Road, Suite 205 Victor, NY 14564

6. Expedited Review. In accordance with FIFRA Section 3(c)(3)
(b)(i), my product is similar or identical in composition and labeling
to:
EPA Reg. NO. Notification Accepted
Product Name Date: 8/20/2012

Section - II

Explanation: Use additional page(s) if necessary. (For section I and Section II.)
As provided in 40 CFR 152.46(a), minor product labeling changes that the Agency has determined have no potential to cause unreasonable adverse effects to the environment. Changes are consistent with PR Notice 98-10.

Section - III

1. Material This Product Will Be Packaged In:
Child-Resistant Packaging  Unit Packaging  Water Soluble Packaging
[ ] Yes  [ ] Yes  [ ] Yes
[ ] No  [ ] No  [X] No

* Certification must be submitted

2. Type of Container
[ ] Metal  [ ] Plastic  [ ] Glass  [ ] Paper  [ ] Other (Specify)

3. Location of Net Contents Information
[ ] Label  [ ] Container

4. Size(s) Retail Container
1 Pint, 1 Quart

5. Location of Label Directions
[ ] On Label  [X] On Labeling accompanying product

6. Manner in Which Label is Affixed to Product
[ ] Lithograph  [ ] Paper glued  [ ] Stenciled  [ ] Other

Section - IV

1. Contact Point (Complete items directly below for identification of individual to be contacted, if necessary, to process this application.)
Name Jamie Aggas
Title Regulatory Coordinator
Telephone No. (Include Area Code) 585-924-4362

Certification
I certify that the statements I have made on this form and all attachments thereto are true, accurate and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

2. Signature
Jamie Aggas

3. Title
Regulatory Coordinator

4. Typewritten Name
Jamie Aggas

5. Date
Jun 18, 2012
June 18, 2012

Document Processing Desk
Biopesticides & Pollution Prevention Division (BPPD)
Office of Pesticide Programs (7504C)
U. S. Environmental Protection Agency
Ariel Rios Building
1200 Pennsylvania Avenue, N.W.
Washington, DC 20460

Attention: Jeannine Kausch
Subject: Labeling Changes
Re: MilStop (EPA Reg. No. 70870-1-68539) B PB
Molt-X (EPA Reg. No. 68539-11) B PB
PlantShield HC (EPA Reg. No. 68539-4) m PB
T-22 HC (EPA Reg. No. 68539-4) m PB
RootShield Granules (EPA Reg. No. 68539-3) m PB
RootShield Home and Garden (EPA Reg. No. 68539-4) m PB

Dear Ms. Kausch:

In an effort to remain compliant with EPA regulations, BioWorks, Inc. is submitting applications for labeling notifications for the above products. Enclosed are forms 8570-1 for each product. In addition, the proposed package labels for each product are included on the enclosed CD.

Please feel free to contact me if you have any questions or need further information.

Best regards,

Jamie Aggas
Regulatory Coordinator
jaggas@bioworksinc.com
585-924-4362 X342
Molt-X®
Botanically Based
Insecticide / Nematicide

ACTIVE INGREDIENT:
Azadirachtin ........................................... 3.0%
OTHER INGREDIENTS: ............................. 97.0%
TOTAL: .................................. 100.00%

Contains 0.26 lb (128 grams) of azadirachtin per gallon
EPA Reg. No. 68530-11
EPA Est. No. 68539-NY-001

KEEP OUT OF REACH OF CHILDREN
CAUTION

See attached booklet for First Aid, Precautionary Statements, Storage & Disposal Instructions and Directions for Use.

Net Contents: 1 Quart (0.946 liter)
**Molt-X®**
**BOTANICALLY BASED INSECTICIDE / NEMATICIDE**

**FIRST AID**

**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.

**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. You may also contact 1-800-222-1222 for emergency medical treatment information.

**PRECAUTIONARY STATEMENTS**

**HAZARDS TO HUMANS AND DOMESTIC ANIMALS**

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before use.

**PERSONAL PROTECTIVE EQUIPMENT (PPE)**

Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Waterproof gloves
• Socks and shoes.

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

**USER SAFETY RECOMMENDATIONS**

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

**ENVIRONMENTAL HAZARDS**

This pesticide is toxic to fish and aquatic invertebrates. Terrestrial uses: 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 apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

**FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:**

Transportation: CHEMTREC 1-800-424-9300

**STORAGE AND DISPOSAL**

**GENERAL:** Do not contaminate water, food or feed by storage or disposal.

**STORAGE:** Store in cool, dry place. Do not store this product above 100 degrees F or below 20 degrees F for extended periods of time. Keep containers tightly closed and in original containers when not in use.

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

**CONTAINER DISPOSAL:** Non-Refillable Container. Triple rinse (or equivalent). Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

S-0433 040112
Molt-X®
BOTANICALLY BASED INSECTICIDE / NEMATICIDE
For Agricultural and Commercial use, Greenhouse, Shadehouse, Interior Scape and Nursery use on outdoor food crops, indoor plants, turfgrass, outdoor shrubs, trees and ornamentals.

For controlling and repelling insects such as aphids, armymeys, beetles, budworms, cutworms, fungus gnats, leafhoppers, leafminers, leafrollers, lepidopterous larvae, loops, sawflies, thrips, webworms, and whiteflies; and plant parasitic nematodes such as dagger, golden, and root knot nematodes.

ACTIVE INGREDIENT:
Azadirachtin. ........................................... 3.00%

INERT INGREDIENTS: ....................... 97.00%

TOTAL: 100.00%

Contains 0.28 lb (128 grams) of azadirachtin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

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.

If In Eyes: • Hold open eye and rinse slowly and gently with water for 15-20 minutes. • Remove contact lenses, if present, after the first 5 minutes, then rinse eye again.

FIRST AID

Inhalation: Remove victim to fresh air. If breathing is difficult, give artificial respiration. Do not give mouth-to-mouth resuscitation if there is any suspicion of contamination with this product.

Ingestion: Do not induce vomiting unless instructed to do so by medical personnel.

If Ingested: • Give 1-2 cups of milk or water. • Call a poison control center or doctor for treatment advice.

Do not injure victim. If victim is unconscious, call a poison control center or doctor immediately. Use CPR if necessary while awaiting medical help.

In case of contact with eyes: • Have the product container or label with you when calling a poison control center or doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash before use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)

Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Waterproof gloves
• Socks and shoes.

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

USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Terrestrial uses: 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 apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:
Transportation: CHEMTREC 1-800-424-9300

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling.

Do not apply this product through any irrigation system unless the chemigation instructions on this label are followed. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS).

Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is:
• Long-sleeved shirt and long pants
• Water proof gloves
• Socks and shoes

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the WPS for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. For other uses including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

PRODUCT DESCRIPTION

Molt-X is an emulsifiable concentrate containing 3.0% by weight azadirachtin. It has been evaluated on a wide variety of ornamental, forestry, and food crops. No phytotoxicity at directed field rates has been observed. Molt-X is an insect growth regulator and does not control adult insects. However, Molt-X is also effective as a repellent towards some adult species, as detailed below.

MODE OF ACTION

Molt-X controls insects in the larval, pupal, and nymphal stages by interfering with the metabolism of ecdysone. Insects typically die between larval to larval, larval to pupal, and nymph to nymph molts, or during adult eclosion.

COMPATIBILITY

Molt-X has been found to be compatible with the most commonly used insecticides, fungicides and miticides. Check compatibility by using the correct proportion of the products in a small test container. Growers should then test the tank-mix combinations for possible adverse effects (such as settling out, flocculation, etc.) and for phytotoxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, a compatibility test is recommended for both new and previously used combinations. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use Molt-X with Bordeaux mixture, triphenyltin hydroxide, lime sulfur, Raptopten or other highly alkaline materials. Use mildly alkaline alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

When using Molt-X in combination with other products, use Molt-X at the rate, or half the rate, specified in the Use Rate Recommendation table. Follow the directions for use, precautions and limitations for use on all of the product labels used in the combination. Some suggested tank mix combinations are as follows:

Molt-X plus non-phytotoxic crop oil* Molt-X plus bifenthrin*
Molt-X plus endosulfan* Molt-X plus esfenvalerate*
Molt-X plus chlorpyrifos* Molt-X plus abamectin *
Molt-X plus acephate* Molt-X plus diflubenzuron *
Molt-X plus Bacillus thuringiensis* (BT) Molt-X plus pyrethrum + piperonyl butoxide (for fogging use)*

* Always follow the manufacturer’s Directions for Use and Precautionary Statements.

APPLICATION INSTRUCTIONS

READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

Molt-X is exempt from tolerances and may be applied as directed to any food crop up to and including the day of harvest at a rate not exceeding 22.5 fl oz (20 grams active ingredient) per acre per application.

MIXING: Shake well before mixing. Always use this product promptly after mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application.

Using the use tables below, determine the amount of Molt-X required for the number of acres to be treated. To a clean spray tank add at least one half the water to be sprayed. Begin agitation and add the determined amount of Molt-X. Add the remaining water and continue agitation.

Molt-X disperses freely when added to water. Always use clean equipment. For uniform distribution on plant canopy and proper dilution, always ensure proper agitation in mixing tanks or vessels. When mixing with other agrichemicals, add solid constituents (such as wettable powders, water dispersible granules or micro-nutrients) last in the form of a slurry.

APPLICATION METHOD AND EQUIPMENT: Apply Molt-X as a foliar spray or a drench to soil or soilless media (e.g., greenhouses) to control insects and nematodes. When needed, soil drenches can also be used to control soil-borne pests, including soil-borne larvae of foliar insect pests. When applying as a drench, avoid

BioWorks, Inc.
EPA Reg. No. 68539-11
EPA Est. No. 68539-NY-001
100 Rawson Rd, Suite 205
Victor, NY 14564 • 800-877-9443
excessive leaching. Molt-X can also be applied through sub-surface soil treatment equipment (e.g. turfgrass). To repel adults, apply through fogging equipment. Always follow equipment manufacturer's use directions.

Apply Molt-X using any powered or manual pesticide application equipment, which includes but is not restricted to: high-volume, low-volume, ultra-low volume, electrostatic, fogging, and chemigation. Follow the original manufacturer's recommendations when using these types of equipment.

For optimum results, 2 to 3 applications made at 7 to 10 day intervals is recommended, unless otherwise specified. Foliar applications should be made to both sides of leaves. In addition, a surfactant used as per the manufacturer's directions may improve product performance. The addition of a non-phytotoxic crop oil at rates not exceeding 1.0% (volume/volume) generally enhances insect control.

**Molt-X USE RATE RECOMMENDATIONS FOR KEY PESTS BY USE SITE**

Molt-X is intended for use on outdoor plants and food crops, plants grown indoors or in greenhouses, shade cloth, interiorscapes and nurseries. Use Molt-X to control any of the following insects and nematodes.

Use the tables below to determine the appropriate use rate for your site/pest combination. Rates are provided in ounces of Molt-X per area or row-length. When infestation is heavy, or when plant canopy is dense, Molt-X may be used at a rate up to twice (2X) that shown in the above table, not to exceed 22.5 oz E.G. / acre. When combining with other insecticides, use half the recommended rate of Molt-X.

### USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS, TREES, TURFGRASS, NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS

<table>
<thead>
<tr>
<th>PEST</th>
<th>RATE ounces of Molt-X/acre</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>USE SITES</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>REMARKS</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>WHITEFLIES, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Greenhouse whiteflies, Silverleaf whiteflies, Woolly whiteflies</td>
<td>8</td>
<td>Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.</td>
</tr>
<tr>
<td><strong>LEAFMINERS, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Azalea leafminers, Birch Leafminers, Citrus leafminers, Serpentine leafminers, Vegetable leafminers</td>
<td>10</td>
<td>Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.</td>
</tr>
<tr>
<td><strong>SCALES, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales</td>
<td>10</td>
<td>Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.</td>
</tr>
<tr>
<td><strong>MEALY BUGS, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus mealybugs</td>
<td>10</td>
<td>Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.</td>
</tr>
<tr>
<td><strong>THrips, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Citrus thrips, Onion thrips, Thrips palmi</td>
<td>10</td>
<td>Spray when pests first appear. Repeat every 5 to 7 days.</td>
</tr>
<tr>
<td><strong>APHIDS, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cotton aphids, Green peach aphids, Pea aphids, Potato aphids</td>
<td>10</td>
<td>Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days.</td>
</tr>
<tr>
<td><strong>PSYLLIDS, such as:</strong></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Pear psylla</td>
<td>8</td>
<td>Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days.</td>
</tr>
<tr>
<td><strong>PEST</strong></td>
<td><strong>RATE</strong></td>
<td><strong>REMARKS</strong></td>
</tr>
<tr>
<td><strong>LEAFHOPPERS, such as:</strong></td>
<td>10</td>
<td>Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 – 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days.</td>
</tr>
<tr>
<td>Grape leafhoppers</td>
<td><strong>RATE</strong></td>
<td><strong>REMARKS</strong></td>
</tr>
<tr>
<td><strong>BUGS, such as:</strong></td>
<td>10</td>
<td>Spray nymphs early.</td>
</tr>
<tr>
<td>Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs, Stink bugs</td>
<td><strong>FLIES, such as:</strong></td>
<td>10</td>
</tr>
<tr>
<td>Blueberry maggots, Cherry maggots, Crane flies, Fruit flies, Midge, Onion maggots, Walnut husk flies</td>
<td><strong>SAWFLIES, such as:</strong></td>
<td>10</td>
</tr>
<tr>
<td>European pine sawflies, Yellow headed pine sawflies</td>
<td><strong>CATERPILLARS, such as:</strong></td>
<td>8</td>
</tr>
<tr>
<td>Armyworms, Artichoke plume moths, Bagworms, Bollworms, Budworms, Cabbage butterflies, Cabbage Loopers, Cankerworms, Caseworms, Corn earworms, Cutworms, Diamond-backed moths, Fruitworms, Grapeleaf skeletonizers, Gypsy moths, Hickory shuckworms, Hornworms, Imported cabbage worms, Leafperforators, Leafrollers, Melonworms, Navel Orangeworms, Oblique banded leafrollers, Omnivorous leafrollers. Oriental fruit moths, Pickleworms, Pine tip moths, Pinworms, Red-banded leaf rollers, Soybean looper, Tent caterpillars, Tobacco budworms, Tussock moths</td>
<td><strong>BEETLES, such as:</strong></td>
<td>8</td>
</tr>
<tr>
<td>Bark Beetles, Blueberry flea beetles, Boll weevils, Colorado potato beetles, Flea beetles, Japanese beetles, Leaf beetles, Mexican bean beetles, Pepper weevils, Phyloxera, Rose Chafers, Twig girdler</td>
<td><strong>WEEVILS, such as:</strong></td>
<td>10</td>
</tr>
<tr>
<td>Black vine weevils, Strawberry vine weevils</td>
<td><strong>REMARKS</strong></td>
<td></td>
</tr>
</tbody>
</table>
*When infestation is heavy, or when plant canopy is dense, Molt-X may be used at a rate up to twice (2X) that shown in the above table, not to exceed 22.5 oz/acre. When combining with other insecticides, half the rate of Molt-X is recommended.

For Use Indoors or in Greenhouses
Use the table below to determine the appropriate use rate for each pest. Foliar sprays for individual plants should thoroughly wet both sides of the leaves without causing toxicity.

<table>
<thead>
<tr>
<th>PEST</th>
<th>RATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>BORERS, such as: Peach twig borers, Peachtree borers, Dogwood borers, Cranberry borers</td>
<td>10</td>
<td>Spray soon after egg hatch. For food crops: Use in combination with 0.25% - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves.</td>
</tr>
<tr>
<td>MOLE CRICKETS</td>
<td>10</td>
<td>Spray nymphs soon after egg hatch.</td>
</tr>
<tr>
<td>NEMATODES, such as: Burrowing nematodes, Dagger nematodes, Golden nematodes, Root knot nematodes</td>
<td>15</td>
<td>Apply in sufficient amount of water to penetrate in the soil to a depth of 12 inches. Repeat applications every 3 or 4 weeks as needed.</td>
</tr>
</tbody>
</table>

USE RATES FOR ANY PLANT GROWN INDOORS OR IN GREENHOUSES, SHADECLOTH, INTERIORSCAPE AND NURSERIES

<table>
<thead>
<tr>
<th>PEST</th>
<th>RATE</th>
<th>REMARKS</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHITEFLIES, such as: Greenhouse whiteflies, Silverleaf whiteflies</td>
<td>10</td>
<td>Ensure good coverage to top and bottom of leaves against larvae and pupae. Can be applied after bract formation on poinsettias (test for phytotoxicity prior to large scale use).</td>
</tr>
<tr>
<td>LEAFMINERS, such as: Serpentine leafminers</td>
<td>10</td>
<td>Spray early. Make 2 to 3 applications in rotation with adulticides such as pyrethroids</td>
</tr>
<tr>
<td>SOFT SCALES</td>
<td>10</td>
<td>Use in combination with 0.5 - 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves.</td>
</tr>
<tr>
<td>MEALY BUGS</td>
<td>8</td>
<td>Always use in combination with 0.5 - 1.0% non-phytotoxic crop oil</td>
</tr>
<tr>
<td>THRIPS, such as: Western flower thrips</td>
<td>8</td>
<td>Spray when pests first appear. Repeat every 5 to 7 days.</td>
</tr>
<tr>
<td>APHIDS, such as: Green peach aphids, Pear aphids, Cotton aphids, Rose aphids</td>
<td>8</td>
<td>Spray when pests first appear. Addition of 0.5 - 1.0% non-phytotoxic crop oil will enhance efficacy.</td>
</tr>
<tr>
<td>LACE BUGS, such as: Azalea lace bugs</td>
<td>8</td>
<td>Spray when pests first appear.</td>
</tr>
<tr>
<td>FLIES, such as: Crane flies, Fungus gnats, Shore flies</td>
<td>8</td>
<td>Add at least 1 pint of mixture per gallon pot as soil drench. Repeat application every 7 days for 3 weeks. For poinsettias, lilies and bedding plants, also make 1 application 10 to 15 days prior to shipping plants to prevent adult emergence.</td>
</tr>
<tr>
<td>CATERPILLARS such as: Armyworms, Bagworms, Cutworms, Lasfrollers, Loopers, Spruce budworms, Webworms</td>
<td>8</td>
<td>Spray when pests first appear.</td>
</tr>
</tbody>
</table>

USE SITES
Molt-X CAN BE USED ON:
- GREENHOUSE FOOD CROPS, such as: Brassica (cole) crops, cucurbits, eggplants, herbs and spices, legumes, peppers, tomatoes, and other miscellaneous crops grown in greenhouses.
- FOOD CROPS, including:
  - Root and tuber vegetables, such as: Artichokes, beets, carrots, ginger, horseradish, potatoes, radishes, rutabagas, sweet potatoes, turmeric, turnips, yams.
  - Leafy vegetables (including Brassica Leafy Vegetables), such as: Amaranth, broccoli, Brussels sprouts, cabbage, cauliflower, celery, chervil, Chinese cabbage, collards, cress, endives, fennel, kales, kohlrabi, lettuce, mizuna, mustard greens, parsley, purslane, rape greens, rhubarb, spinach, Swiss chard.
  - Legume vegetables, such as: Beans (field, kidney etc.), chickpeas, cowpeas, guaj, jackbeans, lablab beans, lentils, peas, pigeon peas, soybeans, sword beans.
  - Fruiting vegetables, such as: Eggplants, ground cherries, pepinos, peppers, pimientos, tomatillos, tomatoes.
  - Cucumber vegetables, such as: bitter melons, Chayotes, Chinese wax gourds, citron melons, cucumbers, gherkins, gourds, muskmelons (such as cantaloupes, casabas, chayotes), squashes, squash, watermelons.
  - Citrus fruits, such as: Calamondins, citrus citrons, citrus hybrids, grapefruits, kumquats, lemons, limes, mandarins, oranges, pummellos, Satsuma mandarins.
  - Pome fruits, such as: Apples, crab apples, loquats, mayhaws, oriental pears, pears, quinces.
  - Stone fruits, such as: Apricots, cherries, nectarines, peaches, prunes, plums.
  - Berries, such as: Blackberries and caneberrys, blueberries, currants, elderberries, gooseberries, huckleberries, loganberries, raspberries, strawberries, youngberries.
  - Cereal grains, such as: Barley, buckwheat, corn, millet, oats, popcorn, rice, rye, sorghum, teosintes, triticate hybrids, wheat, wild rice.
  - Herbs and spices, including but not limited to: Allspice, anglicia, anise, anisette, basil, black, black and white peppers, borage, burnet, chamomille, caper buds, cardamom, caraway, cassia, catio, celery seeds, chervil, chives, cinnamon, dill, cloves, coriander (cilantro), costmary, cumin, curry leaf, dills, fennel, fenugreek, grains of paradise, horehound, hysoxp, juniper berry, lavender, lemongrass, lovage, mace, marigolds, marjoram, mustard seeds, nasturtium, nutmeg, parsley, pennyroyal, penny seeds, rosemary, rue, saffron, sage, savory, sweet basil, tansy, tarragon, thyme, vanilla, wintergreen, woodruff, wormwood.
  - Bulb vegetables, such as: Garlic, leeks, onions, shallots.
  - Nuts, such as: Almonds, beechnuts, Brazil nuts, butternuts, cashews, chestnuts, chiniquapin, filberts, hickory nuts, lychee nuts, macadamias, pecans, pistachios, walnuts.
  - Oilseed crops, such as: Canola, castor, crambe, guar, jojoba, peanuts, rape, safflower, sesam, soybean, sunflower.
  - Tropical fruits, such as: Atemoyas, bananas, breadfruits, cherimoyas, durians, guavas, mangos, mangoes, passionfruits, starfruits.
  - Miscellaneous food and non-food crops, such as: Asparagus, avocados, birdsseed, cacao, coffee, edible flowers, falfia, figs, ginseng, grapes, guava, hops, kiwis, okras, olives, palms, papayas, pawpaws, persimmons, pineapples, rambutans, sugarcanes, tamarillos, tea, tobacco, watercress, waterchestnuts.

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**ORNAMENTAL PLANTS, such as:** African violets, ageratum, aster, aucuba, begonia, cacti, calendula, calla, carnation, ceanothus, chrysanthemum, cineraria, coleus, cotonaster, cyclamen, daffodil, dahlia, delphinium, ficus, foliage plants, fuchsia, geranium, gladiolus, hydrangea, iris, ivy, lily, maidenhair fern, marigold, narcissus, orchid, pansy, pelargonium, peony, phlox, pittosporum, polinertia, pyracantha, rubber plant, snapdragon, stock, tulip, wandering jew, yew, yucca, zinnia.

**ORNAMENTAL TREES AND SHRUBS, such as:** Andromeda, arborvitae, ash, Austrian pine, azalea, birch, birdsnext spruce, blue spruce, boxwood, butternut, camellia, cedar, cemaecyparis, cherry, crabapple, Cyprus, dogwood, Douglas fir, elm, euonymus, firethorn, forsythia, hackberry, hawthorn, hemlock, hickory, holly, honeysuckle, horse chestnut, ilex, juniper, larch, laurel, lilac, linden, London plane, magnolia, mandevilla, maple, mimosia, mountain ash, myrtle, oak, pachysandra, peach, pine, photinia, pittosporum, poplar, privet, privet, quince, rhododendron, roses, spruce, sycamore, white cedar, and white pine.

**TURF AND TURFGRASS, such as:** Bentgrass, Bermuda grass, bluegrass, centipede grass, fescue, ryegrass, St. Augustine, wheatgrass, zoysia grass.

**CHEMIGATION OF MOLT-X**

**General Information**

This product may be applied only through drip (trickle) or sprinkler (center pivot, water supply line upstream from the point of pesticide introduction. As an option, irrigation system is either automatically or manually shut down. The system must contain a functional, automatic, quick closing check valve to prevent the flow of fluid back toward the injection pump. The pesticide injection pipeline must contain a functional, normally closed, solenoid-operated valve located on the intake side of the injection pump and constructed of materials that are compatible with pesticides and capable of being fitted with a system interlock.

Do not apply when wind speeds favor drift beyond the area intended for treatment.

**STATEMENTS CONCERNING THE OPERATION OF FLOOD (BASIN) IRRIGATION SYSTEMS UTILIZING GRAVITY FLOW OR PRESSURIZED WATER AND PESTICIDE INJECTION SYSTEMS**

Systems using a gravity flow pesticide dispensing system must meter the pesticide into the water at the head of the field and downstream of a hydraulic discontinuity such as a drop structure or weir box to decrease potential for water source contamination from back flow if water flow stops.

**Storage and Disposal**

Do not contaminate water, food or feed by storage or disposal.

**CONTAINER DISPOSAL:** Non-Refillable Container. Triple rinse (or equivalent). Empty the remaining contents into application equipment or a mix tank. Fill the container 1/4 full with water and recap. Shake for 10 seconds. Pour rinsate into application equipment or a mix tank or store rinsate for later use or disposal. Then offer for recycling or reconditioning, or puncture and dispose of in a sanitary landfill, or incineration, or, if allowed by State and local authorities, by burning. If burned, stay out of smoke.

**Conditions of Sale**

**NOTICE TO BUYER AND SELLER:** Seller warrants that this product conforms to the description on the label and is reasonably fit for the purposes stated on the label when used and stored in accordance with directions under normal conditions of use. This warranty does not extend to use of this product contrary to label directions or under conditions not reasonably foreseeable by the Seller, and Buyer and User assume the risk of any such use. Seller disclaims all other warranties express or implied, including any warranty of fitness or merchantability. To the extent permitted by state law, Seller shall not be liable for consequential, special or indirect damages resulting from use or handling of this product and Seller’s sole liability and Buyer’s and User’s exclusive remedy shall be limited to refund of the purchase price. This product is sold only for uses stated on its label. No express or implied license is granted to use or sell this product under any patent in any country except as specified.
Molt-X®
BOTANICALLY BASED INSECTICIDE / NEMATICIDE
For Agricultural and Commercial use, Greenhouse, Shadehouse, interiorscape and Nursery use on outdoor food crops, indoor plants, turfgrass, outdoor shrubs, trees and ornamentals.

For controlling and repelling insects such as aphids, armyworms, beetles, budworms, cutworms, fungus gnats, leafhoppers, leafminers, leafrollers, lepidopterous larvae, loops, sawflies, thrips, webworms, and whiteflies; and plant parasitic nematodes such as dagger, golden, and root knot nematodes.

ACTIVE INGREDIENT:
Azadirachtin ............................................. 3.00%
INERT INGREDIENTS: .................................. 97.00%
TOTAL: .................................................. 100.00%

Contains 0.28 lb (128 grams) of azadirachtin per gallon

KEEP OUT OF REACH OF CHILDREN

CAUTION

BioWorks, Inc.
100 Rawson Rd, Suite 205
Victor, NY 14564 • 800-877-9443

EPA Reg. No: 68539-11
EPA Est. No. 68539-NY-001

FIRST AID

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.

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.

Your product container or label with you when calling a poison control center or Doctor, or going for treatment. You may also contact 1-800-222-1222 for emergency medical treatment information.

PRECAUTIONARY STATEMENTS

HAZARDS TO HUMANS AND DOMESTIC ANIMALS

CAUTION: Harmful if absorbed through skin. Avoid contact with skin, eyes, or clothing. Wash thoroughly with soap and water after handling and before eating, drinking, chewing gum or using tobacco. Remove contaminated clothing and wash clothing before use.

PERSONAL PROTECTIVE EQUIPMENT (PPE)
Applicators and other handlers must wear:
• Long-sleeved shirt and long pants
• Waterproof gloves
• Socks and shoes.

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

USER SAFETY RECOMMENDATIONS

Wash hands before eating, drinking, chewing gum, using tobacco or using the toilet. Users should remove clothing immediately if pesticide gets inside. Then wash thoroughly and put on clean clothing.

ENVIRONMENTAL HAZARDS

This pesticide is toxic to fish and aquatic invertebrates. Terrestrial uses: 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 apply when weather conditions favor drift from treated areas. Runoff from treated areas may be hazardous to aquatic organisms in neighboring areas. Do not contaminate water when disposing of equipment washwaters.

FOR THE FOLLOWING EMERGENCIES, PHONE 24 HOURS A DAY:
Transportation: CHEMTREC 1-800-424-9300

DIRECTIONS FOR USE

It is a violation of Federal Law to use this product in a manner inconsistent with its labeling. Do not apply this product through any irrigation system unless the chemigation instructions on this label are followed. Do not apply this product in a way that will contact workers or other persons, either directly or through drift. Only protected handlers may be in the area during application. For any requirements specific to your state or tribe, consult the agency responsible for pesticide regulation.

AGRICULTURAL USE REQUIREMENTS

Use this product only in accordance with its labeling and with the Worker Protection Standard, 40 CFR part 170. This Standard contains requirements for the protection of agricultural workers on farms, forests, nurseries, and greenhouses, and handlers of agricultural pesticides. It contains requirements for training, decontamination, notification, and emergency assistance. It also contains specific instructions and exceptions pertaining to the statements on this label about personal protective equipment and restricted entry interval. The requirements in this box only apply to uses of this product that are covered by the Worker Protection Standard (WPS). Do not enter or allow entry into treated areas during the restricted entry interval (REI) of 4 hours.

PPE required for early entry to treated areas that is permitted under the Worker Protection Standard and that involves contact with anything that has been treated, such as plants, soil, or water is
• Long-sleeved shirt and long pants
• Water proof gloves
• Socks and shoes

NON-AGRICULTURAL USE REQUIREMENTS

These requirements apply to uses of this product that are NOT within the WPS for agricultural pesticides (40 CFR part 170). The WPS applies when this product is used to produce agricultural plants on farms, forests, nurseries, or greenhouses. For other uses including golf courses and other non-agricultural uses, do not enter treated areas without protective clothing until sprays have dried.

PRODUCT DESCRIPTION

Molt-X is an emulsifiable concentrate containing 3.0% by weight azadirachtin. It has been evaluated on a wide variety of ornamental, forestry, and food crops. No phytotoxicity at directed field rates has been observed. Molt-X is an insect growth regulator and does not control adult insects. However, Molt-X is also effective as a repellent towards some adult species, as described below.

MODE OF ACTION

Molt-X controls insects in the larval, pupal, and nymphal stages by interfering with the metabolism of ecdysone. Insects typically die between larval to larval, larval to pupal, pupal to nymphal molts, or during adult eclosion.

COMPATIBILITY

Molt-X has been found to be compatible with the most commonly used insecticides, fungicides and fertilizers. Check compatibility by using the correct proportion of the products in a small test container. Growers should then test the tank-mix combinations for possible adverse effects (such as settling out, flocculation, etc.) and for phytotoxic effects on a small sample of plants prior to use. As environmental conditions can alter the interactions between compounds, a compatibility test is recommended for both new and previously used combinations. Avoid mixtures of several materials and very concentrated spray mixtures.

Do not use Molt-X with Bordeaux mixture, triphenylhydroxide, lime sulfur, Rayplex iron or other highly alkaline materials. Use mildly alkaline mixtures immediately after mixing to prevent loss of insecticidal activity.

When using Molt-X in combination with other products, use Molt-X at the rate, or half the rate, specified in the Use Rate Recommendation table. Follow the directions for use, precautions and limitations for use on all of the product labels used in the combination. Some suggested tank mix combinations are as follows:

| Molt-X plus non - phytotoxic crop oil* | Molt-X plus bifenthrin* |
| Molt-X plus endosulfan* | Molt-X plus esfenvalerate* |
| Molt-X plus chlorpyrifos* | Molt-X plus abamectin* |
| Molt-X plus acephate* | Molt-X plus diflubenzuron* |
| Molt-X plus Bacillus thuringiensis* (BT) | Molt-X plus pyrethrum + piperonyl butoxide (for fogging use)* |

* Always follow the manufacturer's Directions for Use and Precautionary Statements.

APPLICATION INSTRUCTIONS

READ ALL DIRECTIONS AND PRECAUTIONS BEFORE USE

Molt-X is exempt from tolerances and may be applied as directed to any food crop up to and including the day of harvest at a rate not exceeding 22.5 fl oz (20 grams active ingredient) per acre per application.

MIXING: Shake well before mixing. Always use this product promptly after mixing with water. Molt-X will break down in spray tank mixtures of pH 5.5 or less. For optimum performance, a buffering agent may be used. When mixing with other approved agrichemicals, always ensure proper agitation in the spray tank to ensure uniform application.

Using the use tables below, determine the amount of Molt-X required for the number of acres to be treated. To a clean spray tank add at least one half the water to be sprayed. Begin agitation and add the determined amount of Molt-X. Add the remaining water and continue agitation.

Molt-X disperses freely when added to water. Always use clean equipment. For uniform distribution on plant canopy and proper dilution, always ensure proper agitation is maintained in tank mixers or tank trucks. When mixing with other agrichemicals, add solid constituents (such as wettable powders, water dispersable granules or micro-ingredients) last in the form of a slurry.

APPLICATION METHOD AND EQUIPMENT: Apply Molt-X as a foliar spray or a drench to soil or soil-less media (e.g., greenhouses) to control insects and nematodes. When needed, soil drenches can also be used to control soil-borne pests, including soil-borne larvae of foliar insect pests. When applying as a drench, avoid...
excessive leaching. Molt-X can also be applied through sub-surface soil treatment equipment (e.g. turfgrass). To repel adults, apply through fogging equipment. Always follow equipment manufacturer’s use directions.

Apply Molt-X using any powered or manual pesticide application equipment, which includes but is not restricted to: high-volume, low-volume, ultra-low volume, electrostatic, fogging, and chemigation. Follow the original manufacturer’s recommendations when using these types of equipment.

For optimum results, 2 to 3 applications made at 7 to 10 day intervals is recommended, unless otherwise specified. Foliar applications should be made to both sides of leaves. In addition, a surfactant used as per the manufacturer’s directions may improve product performance. The addition of a non-phytotoxic crop oil at rates not exceeding 1.0% (volume / volume) generally enhances insect control.

**Molt-X USE RATE RECOMMENDATIONS FOR KEY PESTS BY USE SITE**

Molt-X is intended for use on outdoor plants and food crops, plants grown indoors or in greenhouses, shaded/hoth, interi�scapes and nurseries. Use Molt-X to control any of the following insects and nematodes.

Use the tables below to determine the appropriate use rate for your site/pest combination. Rates are provided in ounces of Molt-X per area or row-length. When infestation is heavy, or when plant canopy is dense, Molt-X may be used at a rate up to twice (2x) that shown in the above table, not to exceed 22.5 oz E.C. / acre. When combining with other insecticides, use half the recommended rate of Molt-X.

**USE RATES FOR OUTDOOR PLANTS INCLUDING: FOOD CROPS, TREES, TURFGRASS, NURSERY, AND ALL OUTDOOR ORNAMENTAL PLANTS**

<table>
<thead>
<tr>
<th>PEST</th>
<th>RATE ounces of Molt-X/acre</th>
<th>REMARKS</th>
</tr>
</thead>
</table>
| **WHITEFLIES, such as:**  
Greenhouse whiteflies, Silverleaf whiteflies, Woolly whiteflies | 8 | Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. |
| **LEAFMINERS, such as:**  
Azalea leafminers, Birch Leafminers, Citrus leafminers, Serpentine leafminers, Vegetable leafminers | 10 | Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves |
| **SCALES, such as:**  
Brown soft scales, California red scales, Coffee scales, Olive scales, San Jose scales | 10 | Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves. |
| **MEALY BUGS, such as:**  
Citrus mealybugs | 10 | Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover twigs and leaves. |
| **THrips, such as:**  
Citrus thrips, Onion thrips, Thrips palmi | 10 | Spray when pests first appear. Repeat every 5 to 7 days. |
| **APHIDS, such as:**  
Cotton aphids, Green peach aphids, Pea aphids, Potato aphids | 10 | Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days. |
| **PSYLLIDS, such as:**  
Pear psylla | 8 | Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days. |
| **LEAFHOPPERS, such as:**  
Grape leafhoppers | 10 | Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days. |
| **BUGS, such as:**  
Boxelder bugs, Chinch bugs, Lygus bugs, Spittle bugs, Stink bugs | 10 | Spray nymphs early. |
| **FLIES, such as:**  
Blueberry maggots, Cherry maggots, Crane flies, Fruit flies, Midges, Onion maggots, Walnut husk flies | 10 | For food crops: Spray when pests first appear. For non-food crops: Drench soil to kill larvae |
| **SAWFLIES, such as:**  
European pine sawflies, Yellow headed pine sawflies | 10 | Treat larvae early. |
| **CATERPILLARS, such as:**  
Armyworms, Articole plume moths, Bagworms, Bollworms, Budworms, Cabbage butterflies, Cabbage Loops, Cankerworms, Caseworms, Corn earworms, Cutworms, Diamond-backed moths, Fruitworms, Grapeleaf skeletonizers, Gypsy moths, Hickory shuckworms, Hornworms, Imported cabbage worms, Leauperators, Leafrollers, Melonworms, Navel Orange worms, Oblique banded leafrollers, Omnivorous leafrollers. Oriental fruit moths, Pickleworms, Pine tip moths, Pinworms, Red-banded leaf rollers, Sod webworms, Soybean loopers, Tent caterpillars, Tobacco budworms, Tussock moths | 8 | Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days. |
| **BEETLES, such as:**  
Bark Beetles, Blueberry flea beetles, Boll weevils, Colorado potato beetles, Flea beetles, Japanese beetles, Leaf beetles, Mexican bean beetles, Pepper weevils, Phylloxera, Rose Chafer, Twig girdler | 8 | Spray when pests first appear. For food crops: Repeat application after 7-10 days. Use in combination with 0.25 - 1.0% non-phytotoxic crop oil in sufficient water to cover undersides of leaves. For non-food crops: Repeat application every 5 to 7 days. |
| **WEEVILS, such as:**  
Black vine weevils, Strawberry vine weevils | 10 | Make foliar applications to deter adult feeding. Make at least 3 to 4 applications 10 days apart. |