



Molt-X®

Botanical Insecticide/Nematicide

Molt-X® is an emulsifiable concentrate formulation containing 3% of the active ingredient azadirachtin – the most potent of the insect-active compounds from the neem tree. While it is derived from neem seed, Molt-X is not a neem oil. Molt-X has multiple modes of action, making it an ideal material for an Integrated Pest Management (IPM) program.

Molt-X works primarily as an Insect Growth Regulator (IGR) that disrupts the molting process in insects. Insects treated with Molt-X become sluggish, stop feeding, and fail to mature and reproduce. Molt-X also acts as an insect repellent, antifeedant, and ovipositional deterrent; these multiple modes of action make it a highly effective tool for use in a resistance management program.

Molt-X should be applied early in the pest cycle to prevent the rapid build-up of pest populations. Apply Molt-X when pests are first observed or when conditions are favorable for pest build-up. Like all BioWorks products, Molt-X is safe for plants, workers, and the environment.

Molt-X Features:

- Leaves no residue on plant foliage
- 4-hour REI and a zero-day pre-harvest interval
- OMRI Listed
- Compatible for tank mixing/rotation with many commonly used insecticides, fungicides and fertilizers
- No phytotoxicity issues on most plants
- Generally safe on beneficial insects

Molt-X provides broad-spectrum control of pests such as:

- Chinch Bugs
- Beetles
- Weevils
- Armyworms
- Crane flies
- Cutworms
- Plant-parasitic Nematodes such as:
- Sod Webworms
- Mole Crickets

- Burrowing nematodes, Dagger, Golden, Root knot

Crop Use:

- For use on a broad range of turfgrass, outdoor shrubs, trees and ornamentals
- For a broad range of ornamental greenhouse, shadehouse, vegetables, interiorscape and nursery use
- For use on a broad range of outdoor food crops



Sizes: 1pt and 1qt



BioWorks®

How You Grow Matters™

The **SCIENCE** of Organic Plant, Tree & Turf Care

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Ag&Turf

L L C

info@GreenEarthAgAndTurf.com

www.GreenEarthAgAndTurf.com

[facebook.com /GreenEarthAg](https://www.facebook.com/GreenEarthAg)

(866) 374-5101

53 East Industrial Rd #C4 Branford, CT 06405



Molt-X®

Molt-X and BotaniGard® - a combination insects can't resist

- Molt-X has been tested and shown to be an effective tank-mix and rotational partner with BotaniGard. Together they provide added efficacy in controlling insects while still providing plant, human and environmental safety
- Use Molt-X in combination with BotaniGard® for an effective defense against resistant insect populations. BotaniGard controls insects with a high concentration of living spores of the powerful fungus *Beauveria bassiana* GHA strain
- Molt-X allows BotaniGard more time to work by disrupting the molting process
- When using Molt-X with other compatible products, you may use at half recommended rate



Molt-X and SuffOil-X - a perfect one-two punch!

A tank-mix of SuffOil-X® and Molt-X provides a great combination to give the target pests a devastating one-two punch. The suffocating power of SuffOil-X will provide a quick knock-down of adult pests, while Molt-X works to disrupt the insect's lifecycle, feeding, and oviposition activity. This combination is effective in controlling insect pests when populations are on the increase.



Tank-mixes and Rotations Using Molt-X, BotaniGard, and SuffOil-X

Molt-X is compatible with many common chemical insecticides and fungicides. By combining or rotating Molt-X with BotaniGard or SuffOil-X you can design a pest management program that's right for you. Each has a different mode of action, and when used together or in sequence, you can control resistant insects and reduce the likelihood of resistance development. Use the full to one half rate of Molt-X when tank-mixing with BotaniGard. When tank-mixing with SuffOil-X use the full rate of Molt-X and do not exceed a rate of 1% with SuffOil-X.

Application Recommendations

Foliar Treatments

When used as a stand-alone material and for optimal results, make 2 to 3 applications of Molt-X, 7 to 10 days apart. The best results will be achieved with full coverage of all leaf surfaces. Applications can be made using standard application equipment. A surfactant may be added to improve product performance.

Soil Treatments

Molt-X can be applied as a drench to soil to control insects and nematodes. Soil drenches can be used to control soil-borne pests, including 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.

Rates

Apply Molt-X at a rate of 8 to 10 ounces/acre for labeled pests and rate of 15 ounces/acre for nematode control.

If pest pressure is extremely high or if plant canopies are very dense, rates may increase up to 2X.



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Please refer to product labels for complete application details.
Always read and follow label directions.



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