

AzaGuard[®]

Insecticide, Nematicide

Insect & Nematode Protection in Tree Nuts

Key Features & Benefits

- Controls key pests
- REI: 4-hours; PHI: 0-days
- No harmful residue, MRL exempt
- Multiple modes of action
- Disperses easily into solution
- OMRI-Listed per OMRI guidelines, NOP compliant, and Kosher certified

3% Azadirachtin

Field Use Rate in Tree Nuts:

- 8-22.5 fl. oz./acre

IPM Compatible

Incorporation of AzaGuard into rotation or tank-mixing with compatible chemistries* elevates pest control efficacy and prolongs effectiveness with optimized affordability.

Its natural botanical formula meets all of the requirements of the National Organic Program (NOP) and is an important tool in Integrated Pest Management (IPM) and sustainable disease control programs.

Broad-Spectrum Control of Economically-Damaging Pests

AzaGuard provides control over a wide array of important pests in almonds, walnuts, pistachios & pecans.

Control is achieved through direct spray contact onto many insects and eggs and through short-term local systemic activity, more specifically in piercing & sucking pests. Soil drench applications at planting can repel nematodes and set the foundation for healthy seasons.

Pest Types Controlled in Tree Nuts**:

- Navel Orange-Worm
- Oriental Fruit Moth
- Leafrollers
- Codling Moths
- Borers: Peach Twig Borer & Peachtree Borer
- Aphids
- Mites
- Scales
- Stink Bugs
- Chinch Bugs
- Nematodes



Precision Insect Control in Tree Nuts

A Top Formulation of Azadirachtin

AzaGuard is produced in a specialized extraction process of all biologically-active compounds from neem seeds. Our unique small-batch manufacturing process ensures superior, reliable potency compared to standard 1.2% formulations. We also include a built-in adjuvant for optimized efficacy and ease of use.

Why Choose AzaGuard?

- Superior, natural formulation: retains key limonoids during extraction process
- Wide range of pests controlled via short-term systemic activity
- Lower use rates and less material handling provides the most economical azadirachtin
- No maximum number of applications per crop or season due to multiple modes of action, compared to spinosad

		AzaGuard 3.0% a.i.	Standard Azadirachtin Formulations 1.2% a.i.
Active Ingredient Stability		High: optimized formulation	Standard Formulation
Modes of Action		Broad: IGR, anti-feedant, & disrupts reproduction	Limited primarily to IGR
Appl. Rates (fl. oz./A)	Low	8	16
	Mid	12.8	32
	Max	22.5	56
Cost Efficiency		Higher value for performance	Moderate
Tank Mix Compatibility		Excellent	Standard
Shelf Life		Longer: highly stable	Moderate

Formulation is critical for maximum activity:

The extraction process from neem seeds is critical to ensure the purity of azadirachtin and preservation of complementary molecules called limonoids that enhance anti-feedant properties. Our process and high-quality formulation from a complete neem seed oil profile is less prone to the development of resistance compared to simple, purified azadirachtin.

AzaGuard Provides Multiple Modes of Action

- Insect growth regulator (IGR), disrupting growth and molting
- Anti-feedant behavior, starving insects of their food source
- Disrupts mating behavior and decreases viable egg production (oviposition)



Where Does Azadirachtin Come From?

Seeds from the neem tree, *Azadiracta indica*, contain highly-active biochemical compounds, including azadirachtin. Azadirachtin cannot be effectively created synthetically and must be extracted from neem seeds.