

AZARATE

MULTI-FUNCTIONAL BOTANICAL INSECT GROWTH REGULATOR

A multi-functional botanical insect growth regulator that suppresses pests by stopping feeding, disrupting development, and preventing reproduction.

POWERFUL MULTI-MODES OF ACTION SHUT DOWN PESTS FROM ALL DIRECTIONS

AZARATE™ botanical insect growth regulator (IGR) preserves crop quality and yield across a wide range of crops by blocking insect molting and metamorphosis to stop juveniles from developing into adults, deterring feeding, and interfering with reproduction. AZARATE™ deploys multiple modes of action and sites of activity to control a broad spectrum of insects, making it an effective solution for integrated pest and resistance management programs.

TARGET INSECTS*	KEY CROPS*	KEY FEATURES AND BENEFITS
Aphids	Berries	✓ Controls a broad spectrum of destructive insects, including worms
Thrips	Citrus	✓ Works as an IGR through multiple modes of action and sites of activity for effective resistance management
Leafhoppers	Grapes	✓ Stops all target insect life stages by interfering with molting, metamorphosis, feeding, and reproduction
Caterpillars	Herbs	• Bitter smell repels insects so they stop feeding
Beetles	Pome Fruit	• Consuming treated surface makes insects stop feeding by altering their neural responses
Leafminers	Stone Fruit	• Disturbs ecdysone hormone to stop egg laying and prevent molting from immature stages to adult
Borers	Tree Nuts	• Alters hormonal development so insects develop abnormally and die
Mites	Vegetables	✓ IPM compatible by being gentle on beneficial insects
Psyllids		✓ Fits within organic and conventional IPM programs
True bugs		✓ Penetrates plant tissue through translaminar movement to control hard-to-reach insects
Whiteflies		

*See product label for complete list of crops and insect pests.



LOCALLY
SYSTEMIC



4-HOUR REI



0-DAY PHI



TANK-MIX
COMPATIBLE



BENEFICIAL
PREDATOR SAFE



MRL EXEMPT

RECOMMENDED USAGE AND RATES

Start foliar applications of AZARATE™ when pests are expected or first appear. Best results are achieved after 2-3 applications are made at 7-10 day intervals.

- 1-2 pints/acre
- Under heavy pest pressure: up to 3.5 pints/acre

For soil applications, AZARATE™ can be drenched into the soil profile, as well as chemigated directly through drip irrigation systems.

TANK-MIX COMPATIBILITY

AZARATE™ is compatible with most commonly used pesticides and fertilizers, but to avoid potential problems, conduct a compatibility test first.

AZARATE™ ACTIVE INGREDIENT

AZADIRACTIN

A triterpenoid chemical compound belonging to the limonoid group, is a secondary metabolite present in neem seeds.

SITES OF ACTIVITY & MODES OF ACTION STOP INSECTS FROM FEEDING AND DEVELOPING

AZARATE™ deploys multi-site activity and multiple modes of action to disrupt insect growth. It controls target insects' ability to develop and multiply by killing larvae or nymphs before they become reproducing adults, as well as interfering with the insect molting hormone, ecdysone. AZARATE™ also reduces damage by repelling and deterring feeding of all stages of insects.

MODE OF ACTION

SITE OF ACTIVITY

HORMONAL DISRUPTION	■ Mimics/interferes with insect hormones (ecdysone and juvenile hormone) ■ Blocks molting and metamorphosis to prevent juveniles from developing into adults ■ Disrupts endocrine system causing failed development and population collapse
ANTIFEEDANT/ BEHAVIORAL DETERRENT	■ Alters taste/sensory receptors so insects stop feeding or avoid treated plants
REPRODUCTION INHIBITION	■ Reduces fecundity, egg laying, and mating success ■ Can cause partial sterility in some species
GROWTH AND CELLULAR DISRUPTION	■ Inhibits protein synthesis and cell division ■ Interferes with digestive enzymes and metabolism



LEARN MORE AT [SYM-AGRO.COM](https://www.sym-agro.com)

Important: Always read and follow label instructions.
©2026 Sym-Agro®, Inc. All rights reserved.

