

Altacor[®] Insect Control Powered By Rynaxypyr[®] Avaunt[®] Insecticide



CALIFORNIA

Crop Protection Label Summaries

STONE FRUIT

Category	Altacor [®] insect control	Avaunt [®] insecticide
Common Name	Chlorantraniliprole	Indoxacarb
Chemical Class	Anthranilic diamide (Group 28)	Oxadiazine (Group 22)
Mode of Action	Ryanodine receptor activator	Sodium channel blocker
Formulation	35% WDG (water dispersible granule)	30% WDG (water dispersible granule)
EPA Reg No.	352-730	352-597
Label Signal Word	No signal word	Caution
PPE (personal protective equipment)	Long-sleeved shirt and long pants, shoes plus socks	Long-sleeved shirt and long pants, chemical resistant gloves, shoes plus socks
Insect Pest Activity	Works through ingestion, contact, ovicidal ¹ , ovi-larvicidal, larvicidal and adult ^{2,3} activity	Works through ingestion, contact, ovi-larvicidal and larvicidal activity
Beneficial Arthropods	Minimal impact to certain beneficials (predators and parasites), as well as pollinators	See bee statement on back page. Minimal impact to some beneficials (predators and parasites)
Target Insect Pests	Pests Controlled: Codling moths, katydid ⁴ (nymphs), obliquebanded leafrollers, omnivorous leaf rollers, Oriental fruit moths, peach twig borers, tufted apple bud moths, light brown apple moths ⁴ Pest Suppressed: Cherry fruit flies	Pests Controlled: Peach twig borers, light brown apple moths, katydid ⁴ nymphs Pests Suppressed: Earwigs, Oriental fruit moths
Application Timing	Time applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae, before populations reach damaging levels. For best results, applications should be timed at or before egg deposition.	Time applications to the most susceptible insect pest stage, typically at egg hatch and/or newly hatched larvae, before populations reach damaging levels.



Category	Altacor® insect control	Avaunt® insecticide
Application Rate	3.0–4.5 oz./A	Peach twig borers, Oriental fruit moths ⁵ : 6 oz./A Light brown apple moths: 5–6 oz./A Katydid ⁴ nymphs, earwigs (suppression): 6 oz./A
REI (restricted entry interval)	4-hour REI	12-hour REI
PHI (preharvest interval)	10-day PHI	14-day PHI
Rainfastness	When spray dries (translaminar)	When spray dries (moderately translaminar)
Minimum Interval Between Treatments	7 days	7 days
Maximum Product per Season	Do not apply more than 9 oz. Altacor insect control or 0.2 lb. ai of chlorantraniliprole-containing products per acre per crop per year.	Do not apply more than 24 oz. Avaunt insecticide (0.44 lb. ai) per acre per crop.
Maximum Number of Applications per Season	Make no more than three applications per season in stone fruit.	Make no more than three applications prior to hand-thinning. No hand-thinning after the fourth application. Make no more than four applications per season.
Methods of Application	Foliar applications (ground, aerial)	Foliar applications (ground, aerial)
Spray Coverage	Do not apply dilute applications of more than 200 gal. water per acre. For best results, apply 100–150 gal. of water per acre.	Do not apply dilute applications of more than 200 gal. water per acre. For best results, apply 100–150 gal. of water per acre.
Spray Tank Stability	Stable under a wide range of pH (1–9)	Stable under a wide range of pH (5–9)
Spray Adjuvants	Penetrating spray adjuvants are preferred in most situations. Sticker-type spray adjuvants are not recommended.	For best results, use a spray adjuvant to help increase coverage, penetration and thus performance.
Bee Statement	No bee label restrictions. In line with IPM and good agricultural practices insecticide applications should be made when pollinators are not foraging to avoid unnecessary exposure.	Do not apply or allow to drift to blooming crops or weeds while bees are foraging in the treatment area. Low impact to bees once spray has dried.
Resistance Management	Make no more than three successive applications of Altacor insect control (chlorantraniliprole) or other Group 28 products per generation to the same insect species on a crop. Subsequent application(s) to the target pest in the next generation must be with an effective product with a different mode of action (a non-Group 28 insecticide).	Make no more than two successive applications of Avaunt insecticide (indoxacarb) or other Group 22 products per generation to the same insect species on a crop. Subsequent application(s) to the target pest in the next generation must be with an effective product with a different mode of action (a non-Group 22 insecticide).
Packaging	8 x 40 oz. jugs/case = 320 oz./case, 18 cases per pallet = 5,760 oz./pallet	10 x 18 oz. jugs/case = 180 oz./case, 36 cases per pallet = 6,480 oz./pallet

Integrated Pest Management: FMC supports the use of Integrated Pest Management (IPM) programs to control pests. These products may be used as part of an IPM program, which can include biological, cultural, and genetic practices, aimed at preventing economic pest damage. IPM principles and practices include field scouting or other detection methods, correct target pest identification, population monitoring, rotation of insecticides with different modes of action, and treating when target pest populations reach locally determined action thresholds. Consult your state cooperative extension service, professional consultants or other qualified authorities to determine appropriate action treatment threshold levels for treating specific pest/crop or site systems in your area.

¹ Significant ovicidal activity is observed at varying levels depending on pest species. Activity is maximized when eggs are laid onto treated surfaces.

² Disruption of adult insect behaviors in some pest species (e.g., CM, OFM) such as mate finding, mating, oviposition, feeding, locomotion and orientation.

³ Adult mortality is species, application rate, exposure level, and time dependent (based on lab and field studies).

⁴ This Altacor recommendation is made as permitted under FIFRA Section 2(ee) for control of light brown apple moth on stone fruit in the state of California. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2014.

⁵ This Avaunt recommendation is made as permitted under FIFRA Section 2(ee) for control of light brown apple moth on stone fruit in the state of California. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2014.

⁶ This Avaunt recommendation is made as permitted under FIFRA Section 2(ee) for control of katydid* nymphs on stone fruit in the state of California. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2014.

⁷ This Avaunt recommendation is made as permitted under FIFRA Section 2(ee) for suppression of adult earwigs causing fruit damage in stone fruit in the state of California. This 2(ee) expiration date is 12/31/2015.

⁸ Suppression only.

* Forktailed bush katydids (*Scudderia furcata*) angular-winged katydids (*Microcentrum retinerve*).

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