

Grape Insecticide Recommendations from DuPont



Count on DuPont™ to provide reliable and consistent control for key pests in grapes. DuPont insecticides, when used in spray programs, provide you season-long control of economically important pests in grapes.

Key benefits of DuPont™ Avaunt® insecticide:

- Group 22 insecticide, excellent rotational partner with DuPont™ Altacor®
- Registered by the EPA as a Reduced Risk product based on its excellent environmental profile
- Long-lasting residual control
- Low impact to bees once spray is dried, and no impact on predatory mites when wet or dry
- Exceptional and lasting control of pests such as omnivorous leafroller, grape leaffolder, western grapeleaf skeletonizer, with suppression of leafhopper species
- Excellent crop protection — insects stop feeding in 0-4 hours
- Excellent tank stability under a wide range of spray tank pH conditions (pH 5-9).

Key benefits of DuPont™ Lannate® SP insecticide:

- Proven and consistent control (Group 1A insecticide)
- Quick knockdown, DuPont™ Lannate® is lightning fast
- Short residual for fast beneficial recovery
- Low impact to predatory mites once spray is dried
- Broad pest spectrum, including omnivorous leafroller, grape leaffolder, orange tortrix, saltmarsh caterpillar, leafhoppers, climbing cutworm, grapeleaf skeletonizer* and thrips*
- Black widow spider¹ control and mealybug² suppression.

* Calif. only

Key benefits of

DuPont™ Altacor® insecticide:

- Breakthrough mode of action (Group 28 insecticide)
- Excellent environmental profile
- Long-lasting residual control
- No mite flaring
- Exceptional and lasting control of key lepidopteron pests such as omnivorous leafroller, grape leaffolder, western grapeleaf skeletonizer, climbing cutworm and grape berry moth
- Excellent crop protection — insects stop feeding in minutes
- Works through ingestion, contact, ovicidal and ovi-larvicidal activity
- Minimal impact on beneficials, excellent fit with IPM programs
- Application timing flexibility
- Excellent mixing and compatibility with other products
- Low use rates 3-4.5 oz product/A
- No bee restrictions on label
- No signal word
- Excellent tank stability under a wide range of spray tank pH conditions (pH 1-9).



**DuPont™ Avaunt®, Altacor® and Lannate® SP insecticides
Grape Insecticide Crop Timing and Pest Recommendations:**



Crop Timing	Pest	Product Recommendations
Early Season • Pre Bloom through shatter	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, leafhoppers (suppression)	Avaunt® applied at 3.5-6 oz product/A (use 5-6 oz product/A to suppress leafhoppers and 6 oz product/A to control omnivorous leafroller)
	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, climbing cutworm	Altacor® for all labeled Lep pests applied at 3-4.5 oz product/A
	Leafhoppers ¹ , mealybug ² , thrips*, black widow spider ¹	Lannate® SP applied at 8-16 oz/A for broad-spectrum, quick knockdown (use the highest recommended rate for black widow spider control and mealybug suppression)
Mid Season • Berry sizing to bunch closure	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, leafhoppers (suppression)	Avaunt® applied at 3.5-6 oz product/A (use 5-6 oz product/A to suppress leafhoppers and 6 oz product/A to control omnivorous leafroller)
	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, climbing cutworm	Altacor® for all labeled Lep pests applied at 3-4.5 oz product/A
	Leafhoppers, mealybug ² , thrips*, black widow spiders ¹	Lannate® SP applied at 8-16 oz/A for broad-spectrum, quick knockdown (use the highest recommended rate for black widow spider control and mealybug suppression)
Preharvest	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, climbing cutworm	Altacor® for all labeled Lep pests applied at 3-4.5 oz product/A
	Omnivorous leafroller, grape leaf folder, western grapeleaf skeletonizer, leafhoppers (suppression)	Avaunt® applied at 3.5-6 oz product/A (use 5-6 oz product/A to suppress leafhoppers and 6 oz product/A to control omnivorous leafroller)
	Leafhoppers, mealybug ² , thrips*, black widow spiders ¹	Lannate® SP applied at 8-16 oz/A for broad-spectrum, quick knockdown (use the highest recommended rate for black widow spider control and mealybug suppression)

Product	Use Rate Range (Per Acre)	Pre Harvest Interval	Reentry interval
Avaunt [†] ³	3.5-6.0 oz	7 days	12 hours
Altacor [†] ⁴	2.0-4.5 oz	14 days	4 hours
Lannate® SP ⁵	8.0-16.0 oz	1 day Fresh and Raisin, 14 days Wine	7 days through August 15; 21 days August 16 and later

[†] Ground applications only
Calif. only

¹ This Lannate® recommendation is made as permitted under FIFRA Section 2(ee) for use on grapes to control black widow spiders in the states of Arizona and California. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2011.

² This Lannate® SP recommendation is made as permitted under FIFRA Section 2(ee) for use on grapes for suppression of mealybug in the states of Arizona and California. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2011.

³ Make no more than 2 applications/season. Do not apply more than 12 oz/acre/crop. The minimum interval between sprays is 21 days. For best results, use an adjuvant to help increase coverage, penetration and, thus, performance.

⁴ Minimum interval between treatments is 7 days. Do not apply more than 9 oz/acre/crop/season.

⁵ Do not apply more than 5 lbs/acre/crop and do not make more than 5 applications/crop.

Lannate® SP is a restricted-use pesticide.

This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.

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