

Section 18 Approved for Dinotefuran (Scorpion and Venom) on Apples and Peaches for Control of Brown Marmorated Stink Bug

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The US-EPA has approved an emergency exemption request (Section 18) for the use of dinotefuran for control of the brown marmorated stink bug on apples and peaches. This was submitted as a regional request and applies to the states of VA, PA, NJ, MD, DE, WV, and NC. Dinotefuran is a neonicotinoid sold under the trade names of Scorpion 35SL (Gowan) and Venom 70SG (Valent USA). Regardless of the product used, a maximum of 0.604 lbs[AI]/acre/season will be allowed, which is equivalent to 24 fl oz of Scorpion or 13.5 oz of Venom. The preharvest interval for both products is 3 days. Scorpion is labeled at 8 to 12 fl oz per acre (0.203 – 0.304 lbs[AI]/A), which will allow for two to three applications per season. Venom is labeled at 4 to 6.75 oz/acre (0.179 to 0.302 lbs[AI]/A), and the label stipulates a maximum of two applications with a minimum 7-day application interval.

The dinotefuran Section 18 registration provides one additional tool to help manage the BMSB in tree fruits. Because of its short preharvest interval – only 3 days – its greatest utility is anticipated to be for late-season applications in September and October. This is also when BMSB are expected to be at their highest densities and when apples and peaches will be at their greatest threat to injury by this insect.

The array of insecticides recommended for control of BMSB on apples and peaches, along with preharvest intervals, is listed below. These recommendations are based, in part, on bioassay results from several entomologists in WV (T. Leskey), PA (G. Krawczyk) and VA (T. Kuhar).

Insecticide*	Pre-harvest Interval (days)		Precautions
	Apple	Peach	
Endosulfan/Thionex 3EC	21	30	Do not exceed 3 1/3 qts/acre/season, or make more than 2 post bloom applications.
Lannate 90SP	14	4	Do not exceed 5 lbs per acre/season on apples or 6 lbs on peaches.
Actara 25WDG	35	14	Do not exceed 13.5 oz/acre/season on apples and 11 oz on peaches.
Belay	7	21	Do not exceed 12 fl oz/acre/season on apples or peaches.
Scorpion, Venom	3	3	No not exceed 0.604 lbs[AI]/acre/season on apples or peaches.
Permethrin/Ambush 3.2EC	>100	14	Do not apply to apples after petal fall, do not exceed 30 fl oz/acre/season on peaches.
Danitol 2.4EC	14	3	Do not exceed 42 2/3 fl oz/acre/season on apples or peaches.

*Because of the difficulty in correlating laboratory bioassay results with field control, no attempt is made at providing relative efficacy ratings. However, under high BMSB pressure the frequency of application seems to be equally or more important than the choice of insecticide sprayed.