



Technical and Safety Information on Our Insecticide Vector Ban and SynerPro

The only active ingredient in Dead Fly Zone's Vector Ban insecticide is Permethrin 10%. Permethrin has been widely used as a safe insecticide for over 40 years. It is a broad spectrum insecticide, a chemical used to kill a variety of insects. Permethrin is a synthetic pyrethroid insecticide because, while manmade, it resembles naturally-occurring chemicals with insecticidal properties, called pyrethroids. Pyrethroids are found especially in the chrysanthemum flower. Pyrethroids are one of the oldest classes of organic insecticides known. They work by quickly by paralyzing the nervous systems of insects, producing a quick "knockdown" effect on insect pest populations. It kills adults, eggs, and larvae, and has a slight repellent effect against insects.

Permethrin is used against a number of pests, on nut, fruit, vegetable, cotton, ornamental, mushroom, potato and cereal crops. It is used in greenhouses, home gardens and for termite control. It also controls animal ectoparasites, biting flies, and cockroaches.

Permethrin is used as an external insecticide – either in sprays, wipes, spot-ons that may be applied directly to the animal, or in more concentrated formulations designed as premises sprays and in automatic misting systems.

SynerPro is a synergist that is added to Vector Ban that prevents flies from building a resistance to Permethrin. The only active ingredient in SynerPro is Piperonyl Butoxide (PBO). PBO is found in 90% of spot sprays on the market today such as Ultra-Shield, Tritec and Endure and is a derivative of the sassafras tree.

So, are these chemicals safe? Although toxic to insects, permethrin is one of the safest pesticides for humans and most other mammals according to the World Health Organization, the United Nations Food & Agriculture Organization and the US Environmental Protection Agency. Permethrin and PBO are both classified as "Restricted Use Pesticides" by the EPA, which means that their use in products is restricted to certified manufacturers. They are considered non-toxic to mammals (including humans). They both break down easily and are not associated with any significant environmental issues.