

ECOZIN[®] PLUS 1.2ME

A MICROEMULSION FORMULATION

VEGETABLES

Approved by
USDA-National Organic
Program for use in
Organic Production

Ecozin Plus for Controlling Western Flower Thrips

Azadirachtin is an all-natural insecticide which has broad spectrum activity against a wide range of insects feeding on vegetable crops. Insect pests controlled include Western flower thrips, Colorado potato beetles, whiteflies, leafminers, aphids, and most lepidopteran larvae. The mode of action is primarily as an insect growth regulator, however the powerful anti-feedant and repellent properties of Ecozin Plus help prevent the adult and immature insects from feeding on leaves, blooms and fruit. Insect repellency to azadirachtin reduces the transmission rate of insect-vectored plant viruses as well.



Application Guidelines

Ecozin Plus usage on onions, garlic, tomatoes, strawberries, peppers, vegetable and cole crops:

- Spray Ecozin Plus during morning or late in the afternoon. Ensure thorough plant coverage.
- Mix 8 to 15 fl oz Ecozin Plus with recommended rates of pyrethroids such as Ambush[®] or Discipline[®] for maximum efficacy*. Ecozin Plus is compatible with many insecticides. Use higher rates when pest pressure is high.
- For mild alkaline water adjust spray pH with a suitable buffering agent (between 5.5 to 6.5).
- To obtain consistent performance, make at least 2 applications 7 to 10 days apart.
- Ecozin Plus can be chemigated and applied by ground or aerial methods.
- Compatible with IPM programs
- Soft on beneficials

Ecozin Plus is approved for use in organic crop production. It has a zero day Pre-Harvest Interval (PHI). Re-Entry Interval (REI) is 4 hours.

Pest Profile: Western Flower Thrips (*Frankliniella occidentalis*)



The color of Western flower thrips ranges from yellowish-brown to brownish-black with spots. The wings have a distinct fringe. Western flower thrips have only one mandible and use it effectively to damage plant tissue by scraping the surfaces and feeding on leaf, fruit and flower tissue. This results in typical "silvery," scarring or "tip burns." Western flower thrips are important vectors of many

plant viruses such as Tomato Spotted Wilt Virus (TSWV).

Eggs are laid in the leaf tissue, the immatures and pupae go through their life cycle in 18 to 30 days depending on temperature. The quiescent pupal stage is spent in the soil and is not affected by traditional insecticides. When Ecozin Plus is picked up by larvae in the feeding stages, it results in the death of the pupae and prevents adult emergence.

Western flower thrips move into crops such as onions, garlic, tomatoes, strawberries, peppers, various other vegetable and cole crops, primarily from wild weeds and senescing crops.

ECOZIN[®] PLUS

For more information about Ecozin Plus contact your local agricultural chemical retailer, call **1-888 GO AMVAC** (1-888-462-6822) or visit www.amvac-chemical.com.

AMVAC

*Always read and follow all label directions and use precautions.

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