



Zenivex™ E20

Presented to
AZ Vector Conference
Presented by

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**A new, highly effective, reduced risk
mosquito adulticide is available.**



Introducing a New Molecule to
Mosquito Control

Etofenprox

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Zenivex[™]
E20

Etofenprox Background

- Etofenprox molecule identified in the early 80's by Mitsui-Toatsu
- Developed for crop insects in Japan
- First US registrations were received in the early 2000's
- Current registrations are primarily consumer products: dog & cat formulations, aerosols, and foggers



Etofenprox Background

- Unique molecule: non-organophosphate, non-carbamate and not a traditional pyrethroid
- Effective against a wide variety of pests
 - Fleas, tick, moths, weevils, white flies, mosquitoes, roaches, and many other pests
- Application rates vary to accommodate the pest spectrum



Etofenprox Background

- Central Life Sciences acquired the rights to Etofenprox in 2005
- Central Life Sciences currently markets Etofenprox containing products
- Currently developing other product lines including a mosquito adulticide

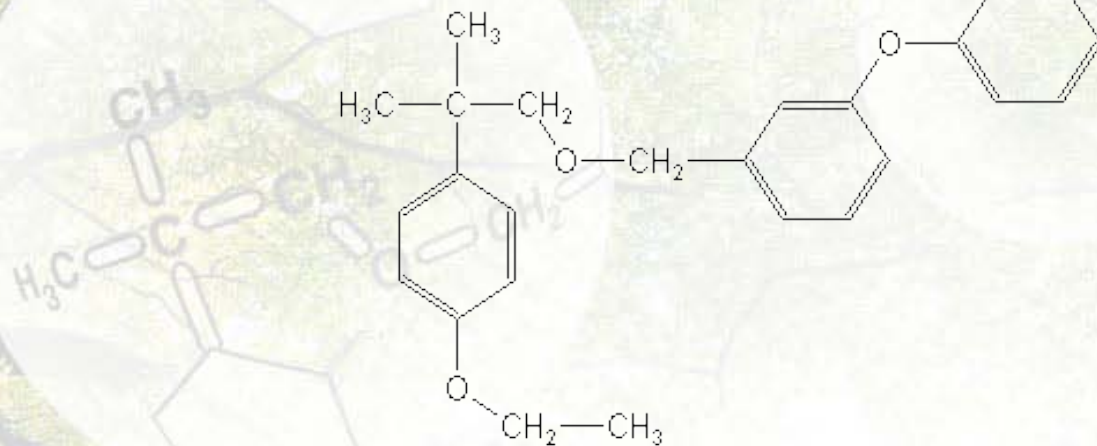


Chemical Classification

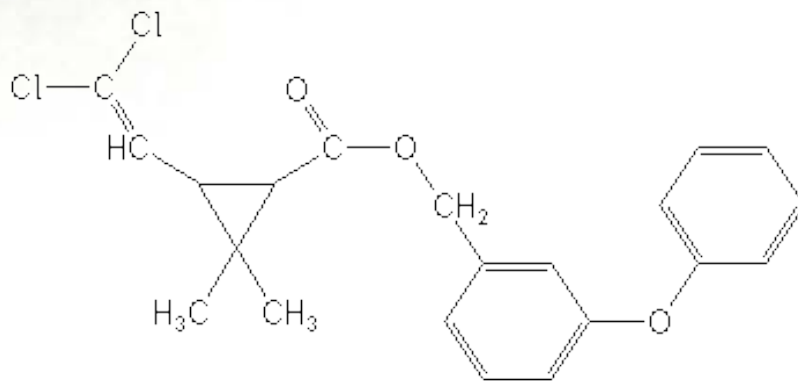
- Etofenprox is classified as an ether pyrethroid
 - Currently, all commercially available mosquito pyrethroids are ester-pyrethroids
- As an ether pyrethroid it does not fall into current EPA review of traditional pyrethroid chemistries
- Molecule contains only carbon, hydrogen, and oxygen



ETOFENPROX



PERMETHRIN



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Etofenprox Mode of Action

- Similar mode of action to traditional pyrethroids
- Sodium channel blocker
- Contact or ingestion toxicant
- Quick, permanent knockdown



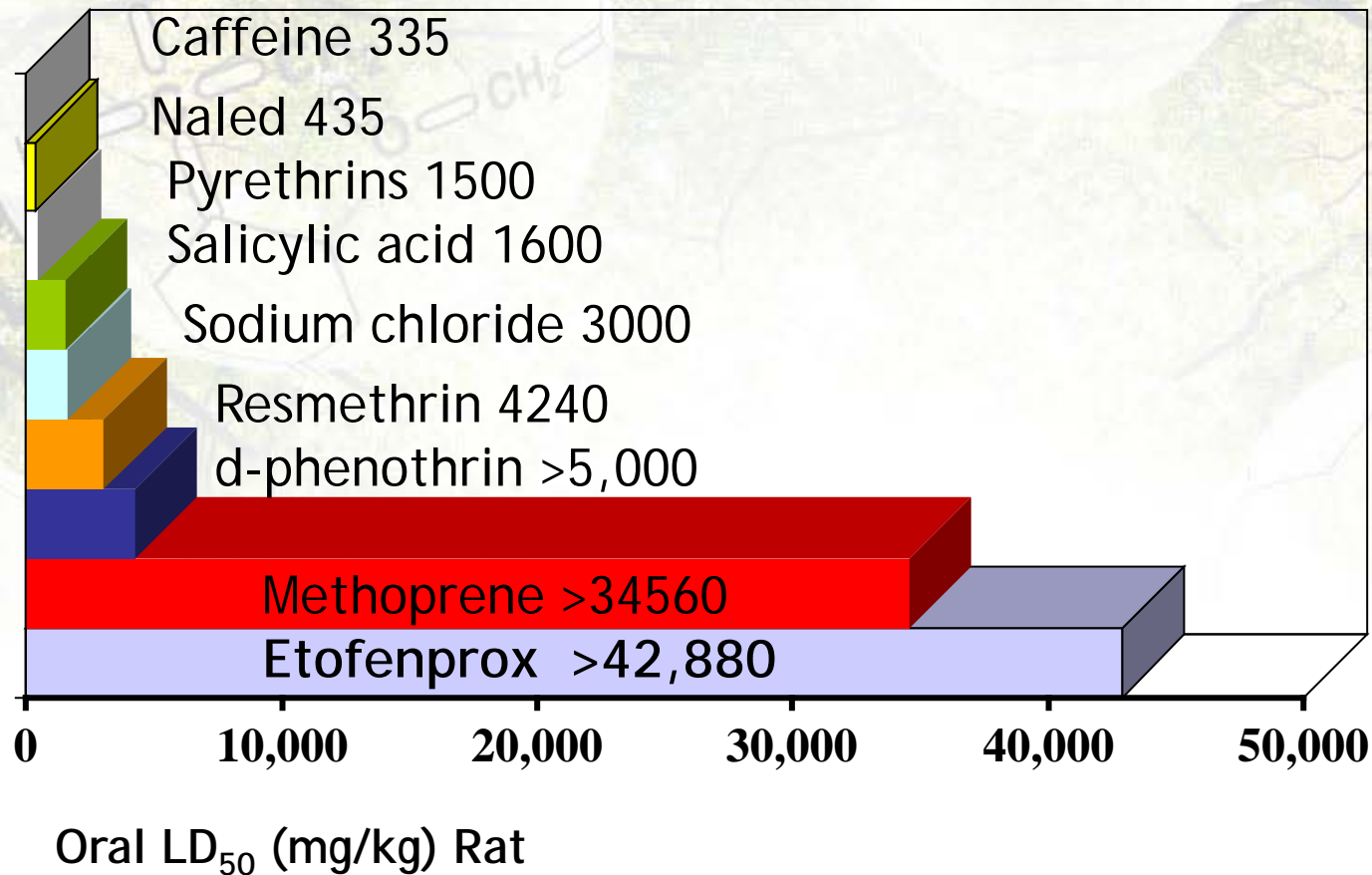
Etofenprox Toxicology

- Very low mammalian toxicity
- Low avian toxicity
- As with pyrethroids, mindful of fish and freshwater invertebrates
- EPA classifies it as reduced risk pesticide for mosquito control



Etofenprox

Larger value = Least toxicity



For More Information

www.Altosid.com

www.zenivex.com

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