

Vectron 10 Fog

Thermal Fogging



VECTRON 10 FOG is an effective synergized insecticide with high knockdown used at low rates to control adult mosquitoes, midges, biting and non-biting flies by Thermal-fogging and ULV application.

For the effective control of adult mosquitoes, midges, black flies, sandflies, tabanids and houseflies.

Used as a space spray by aerial or ground equipment.

FOR THE CONTROL OF ADULT MOSQUITOES, MIDGES, BLACK FLIES, SANDFLIES, TABANIDS AND HOUSEFLIES.

Use VECTRON 10 FOG for the control of nuisance and vector pest species in or near residential, industrial, commercial, urban, recreational areas, woodlands, golf courses, and other areas where these pests are a problem.

Do not spray on or allow drift onto pastureland, cropland, or potable water supplies, fish and shrimp ponds.

When treating corrals, feedlots, swine lots, animal sheds and zoos, cover any exposed drinking water, drinking water fountains, and animal feed before application.

VECTRON 10 FOG controls efficiently adult flies and mosquitoes and can be used as part of a total integrated pest management program for controlling disease vectors.

Etofenprox, the active ingredient of Vectron 10 FOG is effective on species resistant to other pesticides.

Thermal Fogging Application

Apply using a truck, dolly mounted, handheld, or other thermal fogging equipment.

Follow manufacturer's instructions and apply this product at a rate of 15-20 grams active etofenprox per hectare (150-200ml of VECTRON 10 FOG per hectare).

For high infestation campaigns: Dilute 1 Liter of VECTRON 10 FOG with 24 Liters of hydrocarbon based solvent and apply at the rate of 5 liter of mixture per hectare with suitable calibrated thermal fogging equipment.

Direct fog to areas where mosquitoes and other pests fly and breeds.

The volume median diameter (VMD) of droplets produced by thermal foggers should be less than 60 microns ($D_{v0.5} < 60\mu$) with 90% of the spray is contained in droplets smaller than 100 microns ($D_{v0.9} < 100\mu$).

Use Restriction:

- Apply when wind is ≥ 1 m.p.h. Do not apply when wind speeds exceed 10 mph.
- A temperature inversion is preferable to keep the fog close to the ground and applications should be made when labeled insects are most active.
- Do not make more than 25 applications per site per year.
- More frequent treatments may be made to prevent or control a threat to public and/or animal health determined by a state or local health or vector control agency on the basis of documented evidence of disease-causing agents in vector mosquitoes or the occurrence of mosquito-borne disease in animal or human populations, or if specifically approved by authorities during a natural disaster recovery effort.

For effective control of:

- ✦ Mosquitoes
- ✦ Houseflies
- ✦ Flies
- ✦ Midges
- ✦ Sandflies
- ✦ Other Flying insects...

Composition:

Etofenprox	100 g/L
Piperonyl Butoxide	50 g/L
d-Allethrin	3 g/L
Inert Ingredient	up to 100%



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Advantages of Vectron IO Fog:

- ★ Low acceptable odor
- ★ Non-ester pyrethroid like
- ★ Unique molecule
- ★ No SFS
- ★ Improved safety for operators and bystanders
- ★ Effective on OP, carbamate and pyrethroid resistant mosquitoes
- ★ GABA channel blocker

The active ingredient in Vectron IO Fog is Etofenprox, a unique molecule that is new in the control of adult mosquitoes and other dipterous pests.

EPA and ECHA has classified Etofenprox as reduced risk insecticide. The EU Commission has added Etofenprox to the new EU BPR (EU Biocides Regulation 528/2012) Article 9 list of Approved Active Substances.

It poses only very low risk to human and animal health and the environment.

Etofenprox is a non-organophosphate, non-carbamate, and non-ester pyrethroid like without the SFS, and is classified as reduced risk by the EPA and ECHA.

The active ingredient interferes with the insects' nervous system by inhibiting the function of GABA channels in nerves. It is effective against those strains of insects that have become resistant to other active ingredients such as carbamates, phosphorganics and pyrethroids.

The acute toxicity of Etofenprox (oral, dermal, and inhalation) is among the lowest for insecticides in public health: the active LD₅₀ acute oral for rat is 42880 mg/kg.



Environmental Profile

Vectron 10 Fog offers a positive environmental profile. The molecule breaks down in sunlight and soils. Environmental studies show Vectron 10 Fog is not persistent in soil, surface water or sediment, with average half-lives in aquatic field studies of 1.7 days in water and 4.4 days in soil.

Ecological Toxicology

Etofenprox presents a low toxicity to birds. Dried foliar residues are not harmful to honeybees but colonies must be closed during application.

Mammalian Toxicology

Etofenprox has very low toxicity to mammals. The EPA has classified Etofenprox as unlikely to cause cancer in humans. Etofenprox has low intermediate-term toxicity and chronic toxicity. Etofenprox is not a mutagen, developmental toxin or reproductive toxin.

Comparative table of toxicities and labeling of main active ingredient:

Product Active ingredient	Vectron 10 Fog Etofenprox (100 g/L)	Aqua-Deltamethrin Deltamethrin (20 g/L)
Hazard Statement	Toxic to aquatic life Non SFS	Toxic if swallowed. Toxic if inhaled. Very toxic to aquatic life with long lasting effects. Sensitization of eyes and mucous membranes
Pictogram(s)		
Acute oral toxicity	LD ₅₀ > 2000 mg/kg	LD ₅₀ = 87 mg/kg
Acute dermal toxicity	LD ₅₀ > 2000 mg/kg	LD ₅₀ > 2000 mg/kg
Acute inhalation toxicity	LC ₅₀ = 5.88 mg/L/4hr	LC ₅₀ = 0.60 mg/L/4hr
Irritation	Non irritant	Eye and dermal irritant



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