

Chemical Factsheet

Methoprene

General Information

- Fact Sheet: [Methoprene.pdf](#)
- Product Names:
 - Moorman's Cattle** (ADM Alliance Nutrition)
 - Zoecon Insect and Mite Houseplant Mist** (Wellmark International), formulated with [Resmethrin](#), Cycloprate, Dientochlor (some formulations)
 - Pharorid Ant Growth Regulator** (Wellmark International)
 - Apex 5E** (Wellmark International)
- Chemical Class: Insect growth regulator biochemical insecticide
- Uses: Production of foods including meat, milk, mushrooms, peanuts, rice and cereals; uses on domestic animals (pets) for controlling fleas; targets horn flies, mosquitoes, beetles, tobacco moths, sciarid flies, fleas, fire ants, pharaoh ants, midge flies and Indian meal moths.
- Alternatives: [Organic agriculture](#), [Least-toxic mosquito control](#), [Least-toxic pet care](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- [Fleas](#)
- [Ants](#)
- [Cockroaches](#)
- [Mosquitoes](#)
- [Fire Ants](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (3/1991)

- Supporting information:
 - [Extoxnet Methoprene Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database:Methoprene](#) (Pesticide Action Network)
- Studies:
 - [Hindlimb deformities \(ectromelia, ectrodactyly\) in free-living anurans from agricultural habitats](#), Ouellet, M. et. al. 1997. *Journal of Wildlife Diseases*. 33(1):95-104.

Gateway Health and Environmental Effects Citations

1. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.
<http://extoxnet.orst.edu/pips/ghindex.html>

Factsheet generated on July 9, 2026