

Chemical Factsheet

Methoxychlor

General Information

- Fact Sheet: [Methoxychlor.pdf](#)
- Product Names:
 - Bonide Rose and Flower** (Bonide Products), formulated with [Carbaryl](#), [Malathion](#), [Captan](#)
 - Ortho Home Orchard Spray** (Monsanto), formulated with [Malathion](#), [Captan](#)
 - E-Z-FLO Crop Guard** (Bayer Cropscience), formulated with [Diazinon](#), Xylene
 - Rockland General Purpose Dust** (Value Garden Supply), formulated with [Malathion](#), [Captan](#)
 - Purina Horse Spray** (Purina Mills), formulated with Butoxypolypropylene glycol
 - Prentox Mosquito Yard Spray** (Prentiss), formulated with [Malathion](#)
- Chemical Class: Organochlorine insecticide
- Uses: No registered uses. Historically used on cockroaches, mosquitoes, flies and chiggers, as well as various arthropods that attack field crops, vegetables, fruits, ornamentals, stored grain, livestock, and domestic pets.
- Alternatives: [Organic Agriculture](#), [Least-toxic insect control](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Known (1)
- Reproductive Effects: Yes (2)
- Neurotoxicity: Yes (2)
- Kidney/Liver Damage: Yes (2)
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Yes (2)
- Potential Leacher: Not documented
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (2)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (6/2004)
- Supporting information:
 - [Exttoxnet Methoxychlor Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database:Methoxychlor](#) (Pesticide Action Network)
 - [Scorecard Methoxychlor Factsheet](#) (Environmental Defense Fund)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [The Effects of Perinatal/Juvenile Methoxychlor Exposure on Adult Rat Nervous, Immune,](#)

[and Reproductive System Function](#). Chapin, R. E., Harris, M. W., Davis, B. J., Ward, S. M., Wilson, R. E., Mauney, M. A., Lockhart, A. C., Smialowicz, R. J., Moser, V. C., Burka, L. T., & Collins, B. J. (1997). The effects of perinatal/juvenile methoxychlor exposure on adult rat nervous, immune, and reproductive system function. *Fundamental and applied toxicology : official journal of the Society of Toxicology*, 40(1), 138-157.
<https://doi.org/10.1006/faat.1997.2381>

- [Pesticide residue in cucumber-exposed plants, and its associated effects on soil nematode population](#). Imonikebe, P. et al. (2025) Pesticide residue in cucumber-exposed plants, and its associated effects on soil nematode population, *Advances in Modern Agriculture*. Available at:
https://www.researchgate.net/publication/390847748_Pesticide_residue_in_cucumber-exposed_plants_and_its_associated_effects_on_soil_nematode_population.
- [Mapping pesticide-induced metabolic alterations in human gut bacteria](#). Chen, L. et al. (2025) Mapping pesticide-induced metabolic alterations in human gut bacteria, *Nature Communications*. Available at: <https://www.nature.com/articles/s41467-025-59747-6>.
- [Pesticides in surface water of the Ondas river watershed, western Bahia, Brazil: Spatial-seasonal distribution and risk assessment](#). do Rego EL, de Souza JR, Nakamura TC, Portela JF, Diniz PHGD, da Silva JDS. Pesticides in surface water of the Ondas river watershed, western Bahia, Brazil: Spatial-seasonal distribution and risk assessment. *Chemosphere*. 2024 Apr;354:141659. doi: 10.1016/j.chemosphere.2024.141659. Epub 2024 Mar 13. PMID: 38490616.
- [Relationship between agrochemical compounds and mammary gland development and breast cancer](#). Kass, L., Gomez, A. L., & Altamirano, G. A. (2020). Relationship between agrochemical compounds and mammary gland development and breast cancer. *Molecular and cellular endocrinology*, 508, 110789. <https://doi.org/10.1016/j.mce.2020.110789>

Gateway Health and Environmental Effects Citations

1. Illinois EPA, Endocrine Disruptors Strategy, February 1997.

<https://nepis.epa.gov/Exe/ZyNET.exe/910140ZK.txt>

2. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.

<http://extoxnet.orst.edu/pips/ghindex.html>

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