

Chemical Factsheet

Indoxacarb

General Information

- Fact Sheet: [Indoxacarb.pdf](#)
- Product Names:
 - Activyl** (Intervet)
 - Avaunt** (Syngenta/Dupont)
 - Advion** (Syngenta/Dupont)
 - Aperion** (Syngenta/Dupont)
 - Provaunt** (Syngenta/Dupont)
 - Steward** (Syngenta/Dupont)
 - Tomcat** (Bell)
 - Hyperactive** (Reckitt)
 - Mandible** (Reckitt)
- Chemical Class: Oxadiazines
- Uses: Apples, pears, Brassica, sweet corn, lettuce and other fruiting vegetables, cotton, for control of lepidoptera pests (ie moths and butterflies) including the beet armyworm.
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Residential Uses as Found in the ManageSafe™ Database

- [Ants](#)
- [Cockroaches](#)

Additional Information

- Regulatory Status:
 - [Conditional Registration EPA Fact Sheet](#) (October 2000)

- Supporting information:
 - [PAN Pesticide Database: Indoxacarb](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Organic farming reduces pesticide load in a bird of prey](#). Fuentes, E. et al. (2024) Organic farming reduces pesticide load in a bird of prey, *Science of The Total Environment*. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969724029255>.
 - [A Th2-type immune response and low-grade systemic inflammatory reaction as potential immunotoxic effects in intensive agriculture farmers exposed to pesticides](#). Lozano-Paniagua, D. et al. (2024) 'A th2-type immune response and low-grade systemic inflammatory reaction as potential immunotoxic effects in intensive agriculture farmers exposed to pesticides', *Science of The Total Environment*, 938, p. 173545. doi:10.1016/j.scitotenv.2024.173545.
 - [Systematic assessments of ecological and health risks of soil pesticide residues](#). Tang, T. et al. (2025) Systematic assessments of ecological and health risks of soil pesticide residues, *Environmental Pollution*. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0269749125007213>.
 - [Toxicity of the insecticides spinosad and indoxacarb to the non-target aquatic midge Chironomus riparius](#). Monteiro, H. R., Pestana, J. L. T., Novais, S. C., Soares, A. M. V. M., & Lemos, M. F. L. (2019). Toxicity of the insecticides spinosad and indoxacarb to the non-target aquatic midge *Chironomus riparius*. *The Science of the total environment*, 666, 1283–1291. <https://doi.org/10.1016/j.scitotenv.2019.02.303>

Gateway Health and Environmental Effects Citations

1. U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, New Active Ingredients Factsheets: <http://web.archive.org/web/20120107215849/http://www.epa.gov/opprd001/factsheets/index.htm>

Factsheet generated on July 4, 2026