

Chemical Factsheet

Chlorpyrifos

General Information

- Fact Sheet: [Chlorpyrifos.pdf](#)
- Product Names:
 - Chemsico roach control** (Chemiso)
 - Pyrinex mole cricket bait** (Micro-Flo)
 - Dursban** (Dow AgroSciences)
 - Lorsban** (Dow AgroSciences)
 - Ortho Ant Stop** (Solaris Group), formulated with Calcium silicate, Aromatic petroleum distillates
 - Ortho Dursban Lawn & Garden Insect Control** (Solaris Group), formulated with Calcium silicate
 - Bonide Termite & Carpenter Ant Dust** (Bonide Products)
 - Raid Ant Bait** (SC Johnson)
 - Hot Shot Maxattrax Roach Bait** (Spectrum Brands)
- Chemical Class: Organophosphate insecticide
- Uses: food and feed crops, golf courses, as a non-structural wood treatment, and as an adult mosquitocide
- Alternatives: [Agriculture](#), [Nonresidential buildings](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Yes (1)
- Reproductive Effects: Yes (2, 3)
- Neurotoxicity: Yes (4)
- Kidney/Liver Damage: Yes (5)
- Sensitizer/ Irritant: Yes (6)
- Birth/Developmental: Yes (2)
- Detected in Groundwater: Yes (2)
- Potential Leacher: Yes (2)
- Toxic to Birds: Yes (4)
- Toxic to Fish/Aquatic Organisms: Yes (4, 7)
- Toxic to Bees: Yes (4)

Residential Uses as Found in the ManageSafe™ Database

- [Tree-boring Caterpillars](#)
- [Wasps and Yellowjackets](#)
- [Carpenter Bees](#)
- [Cockroaches](#)
- [Bed Bugs](#)

- [Ticks](#)

Additional Information

- Regulatory Status:
 - [EPA's Chlorpyrifos Background and Updates](#) and [FAQ](#)
 - [EPA Update on the Use of the Pesticide Chlorpyrifos on Food](#) (2026)
 - [Beyond Pesticides' Comments](#) (March 2025)
 - [EPA Issues a Final Cancellation and Termination of Uses Order for Several Chlorpyrifos Products](#) (December 2024)
 - [EPA Proposes Rule to Revoke Most Food Uses of the Insecticide Chlorpyrifos](#) (December 2024)
 - [Tolerance Revocations: Chlorpyrifos](#) (2021)
 - [Beyond Pesticides' California Department of Pesticide Regulation Human Health Effects comments](#) (2017)
 - [Beyond Pesticides' comments on EPA Tolerance Revocations](#) (2017)
 - [EPA denies a petition requesting that EPA revoke all tolerances for the pesticide chlorpyrifos](#) (2017)
 - [EPA Requests for Columbia Study's Data](#) (2017)
 - [Revised 2016 Human Health Risk Assessment](#)
 - [NMFS Biological Opinion for Pesticides: Chlorpyrifos, Diazinon, and Malathion](#) (2017)
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (7/2006)
 - [Beyond Pesticides' EPA Risk Assessment comments](#) (2000)
- Supporting information:
 - [Daily News Blog entries](#) (Beyond Pesticides)
 - [Widely Used Pesticide in Food Production Damages Children's Brains](#) (Beyond Pesticides, 2017)
 - [Asthma, Children and Pesticides](#) (Beyond Pesticides)
 - [The Low Down on Dursban](#) (Beyond Pesticides)
 - [Alternatives to Using Chlorpyrifos](#) (Beyond Pesticides)
 - [Safer Choice](#) (Beyond Pesticides)
 - [NCAP Chlorpyrifos Factsheet](#) (Northwest Coalition for Alternatives to Pesticides)
 - [Exttoxnet Chlorpyrifos Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database:Chlorpyrifos](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Effects of chlorpyrifos on the crustacean *Litopenaeus vannamei*](#) Duarte-Restrepo, E., Jaramillo-Colorado, B.E. and Duarte-Jaramillo, L., 2020. *PloS one*, 15(4), p.e0231310.
 - [Brain anomalies in children exposed prenatally to a common organophosphate pesticide.](#) Rauh VA, Perera FP, Horton MK, et al. 2012. *Proc Natl Acad Sci U S A*. 109(20):7871-6.
 - [Chlorpyrifos exposure and urban residential environment characteristics as determinants of early childhood neurodevelopment.](#) Lovasi GS, Quinn JW, Rauh VA, et al. 2011. *Am J Public Health*. 101(1):63-70.
 - [Impact of prenatal chlorpyrifos exposure on neurodevelopment in the first 3 years of life among inner-city children.](#) Rauh VA, Garfinkel R, Perera FP, et al. 2006. *Pediatrics*.118(6):e1845-59.
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 - [Top 15 Farmworker Poison](#)
 - [7-Year Neurodevelopmental Scores and Prenatal Exposure to Chlorpyrifos, a Common Agricultural Pesticide.](#) Rauh V, Arunajadai S, Horton M, Perera F, Hoepner L, Barr DB, et al.

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