

Chemical Factsheet

Tetramethrin

General Information

- Fact Sheet: [Synthetic Pyrethroids.pdf](#)
- Product Names:
 - Enforcer Wasp & Yellow Jacket Foam** (Enforcer Products), formulated with [Sumithrin](#)
 - Deep 6 Wasp and Hornet Killer** (Speer Products), formulated with [Piperonyl butoxide](#), [Permethrin](#)
 - Champion Fire Ant Killer** (Chase Products), formulated with [Piperonyl butoxide](#), [Permethrin](#)
 - Hot Shot Indoor Fogger 3 with Odor Neutralizer** (Spectrum Brands), formulated with [Permethrin](#)
 - Mosquito B Gon Area Repellent** (Ortho Group), formulated with [Permethrin](#)
 - Raid Flea Killer Plus** (SC Johnson), formulated with [Piperonyl butoxide](#), N-Octyl bicycloheptene dicarboximide (MGK 264), [Pyrethrins](#), Sodium nitrite, d-Methoprene
- Chemical Class: Synthetic pyrethroid insecticide
- Uses: Targets insects such as wasps, hornets, roaches, ants, fleas, and mosquitoes in residential and industrial settings and rights-of-way
- Alternatives: [Least-toxic Rights-of-way managment](#), [Least-toxic mosquito control](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Possible (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Yes (2)
- 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 (3)
- Toxic to Bees: Yes (4)

Residential Uses as Found in the ManageSafe™ Database

- [Cockroaches](#)
- [Fleas](#)
- [Wasps and Yellowjackets](#)
- [Chiggers](#)

Additional Information

- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Exposure to pesticides, persistent and non – persistent pollutants in French 3.5-year-old children: Findings from comprehensive hair analysis in the ELFE national birth cohort.](#) Macheka, L. et al. (2024) Exposure to pesticides, persistent and non – persistent pollutants in French 3.5-year-old children: Findings from comprehensive hair analysis in the ELFE national birth cohort, Environment International. Available at: <https://www.sciencedirect.com/science/article/pii/S0160412024004677>.
 - [Subacute oral toxicity of combinations of selected synthetic pyrethroids, piperonyl butoxide, and tetramethrin in rats.](#) Yavuz O, Aksoy A, Das YK, et al. (2013). Subacute oral toxicity of combinations of selected synthetic pyrethroids, piperonyl butoxide, and tetramethrin in rats. Toxicology and Industrial Health. <https://journals.sagepub.com/doi/abs/10.1177/0748233712469651>
 - [Pesticide contamination in indoor home dust: A pilot study of non-occupational exposure in Argentina.](#) Aparicio, Virginia & Kaseker, Jessica & Scheepers, Paul & Alaoui, Abdallah & Figueiredo, Daniel & Mol, H. & Silva, Vera & Harkes, Paula & dos Santos, Danilo & Geissen, Violette & Costa, José. (2025). Pesticide Contamination in Indoor Home Dust: A Pilot Study of Non-Occupational Exposure in Argentina. Environmental Pollution. 373. 126208. [10.1016/j.envpol.2025.126208](https://doi.org/10.1016/j.envpol.2025.126208).
 - [Monitoring of Non-Maximum-Residue-Level Pesticides in Animal Feed: A Study from 2019 to 2023.](#) Giugliano, R., Armenio, V., Savio, V., Vaccaro, E., Ciccotelli, V., & Vivaldi, B. (2024). Monitoring of Non-Maximum-Residue-Level Pesticides in Animal Feed: A Study from 2019 to 2023. Toxics, 12(9), 680. <https://doi.org/10.3390/toxics12090680>
 - [Pyrethroid-induced cardiac Dysfunction: A systematic review and meta-analysis of preclinical evidence.](#) Durço, A. et al. (2026) Pyrethroid-induced cardiac Dysfunction: A systematic review and meta-analysis of preclinical evidence, Chemico-Biological Interactions. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0009279726001389>.

Gateway Health and Environmental Effects Citations

1. EPA weight-of-evidence category, "possible human carcinogen." US EPA, 2004. Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. July 29, 2004. <http://www.epa.gov/pesticides/carlist/>
2. US EPA, 2000. Table 1: Toxicity Data by Category for Chemicals Listed under EPCRA Section 313. Toxic Release Inventory (TRI) Program. https://www.epa.gov/sites/production/files/documents/hazard_categories.pdf
3. Briggs, S.A. 1992. Basic Guide to Pesticides: Their Characteristics and Hazards. Washington, DC: The Rachel Carson Council, 98. <https://www.cabdirect.org/cabdirect/abstract/19932334845>
4. Yueh, MF et al. 2014. [The commonly used antimicrobial additive triclosan is a liver tumor promoter.](#) PNAS doi: 10.1073/pnas.1419119111. *Triclosan promotes liver cancer cell development and proliferation in mice through pathways common to humans.*