

Chemical Factsheet

Naled

General Information

- Fact Sheet: [Naled.pdf](#)
- Product Names:
 - Dibrom** (AMVAC)
 - Trumpet** (AMVAC)
 - Fly Killer D** (AMVAC)
 - Prokil Naled** (Gowan)
- Chemical Class: Organophosphate
- Uses: Control of mosquitoes, blackflies, aphids, mites
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Residential Uses as Found in the ManageSafe™ Database

- [Cockroaches](#)
- [Mosquitoes](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision](#) (RED) signed (07/2006)
 - [EPA Factsheet](#) (2002)
- Supporting information:
 - [Beyond Pesticides' Letter to EPA](#) (2016)
 - [PAN Pesticides Database: Naled](#) (Pesticide Action Network)
 - [NCAP Factsheet](#) (Northwest Coalition for Alternatives to Pesticides)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]

- [A pesticide and iPSC dopaminergic neuron screen identifies and classifies Parkinson-relevant pesticides](#). Paul, K.C., Krolewski, R.C., Lucumi Moreno, E., Blank, J., Holton, K.M., Ahfeldt, T., Furlong, M., Yu, Y., Cockburn, M., Thompson, L.K. and Kreymerman, A., 2023. *Nature Communications*, 14(1), p.2803.
- [Persistence of aerially-sprayed naled in coastal sediments](#). Bamiduro, G. J., Kumar, N., Solo-Gabriele, H. M., & Zahran, E. M. (2021). Persistence of aerially-sprayed naled in coastal sediments. *The Science of the total environment*, 794, 148701. <https://doi.org/10.1016/j.scitotenv.2021.148701>
- [Field Assessment of Naled and Its Primary Degradation Product \(Dichlorvos\) in Aquatic Ecosystems Following Aerial Ultra-low Volume Application for Mosquito Control](#). Smith, C.D., Hladik, M.L., Kuivila, K.M. et al. Field Assessment of Naled and Its Primary Degradation Product (Dichlorvos) in Aquatic Ecosystems Following Aerial Ultra-low Volume Application for Mosquito Control. *Arch Environ Contam Toxicol* 84, 307–317 (2023). <https://doi.org/10.1007/s00244-023-00981-8>
- [Prenatal naled and chlorpyrifos exposure is associated with deficits in infant motor function in a cohort of Chinese infants](#). Silver, M. K., Shao, J., Zhu, B., Chen, M., Xia, Y., Kaciroti, N., Lozoff, B., & Meeker, J. D. (2017). Prenatal naled and chlorpyrifos exposure is associated with deficits in infant motor function in a cohort of Chinese infants. *Environment international*, 106, 248–256. <https://doi.org/10.1016/j.envint.2017.05.015>
- [Acute toxicity and risk assessment of permethrin, naled, and dichlorvos to larval butterflies via ingestion of contaminated foliage](#). Hoang, T. C., & Rand, G. M. (2015). Acute toxicity and risk assessment of permethrin, naled, and dichlorvos to larval butterflies via ingestion of contaminated foliage. *Chemosphere*, 120, 714–721. <https://doi.org/10.1016/j.chemosphere.2014.10.040>
- [Mosquito control insecticides: a probabilistic ecological risk assessment on drift exposures of naled, dichlorvos \(naled metabolite\) and permethrin to adult butterflies](#). Hoang, T. C., & Rand, G. M. (2015). Mosquito control insecticides: a probabilistic ecological risk assessment on drift exposures of naled, dichlorvos (naled metabolite) and permethrin to adult butterflies. *The Science of the total environment*, 502, 252–265. <https://doi.org/10.1016/j.scitotenv.2014.09.027>
- [Monitoring the aquatic toxicity of mosquito vector control spray pesticides to freshwater receiving waters](#). Phillips, B. M., Anderson, B. S., Voorhees, J. P., Siegler, K., Denton, D., TenBrook, P., Larsen, K., Isorena, P., & Tjeerdema, R. S. (2014). Monitoring the aquatic toxicity of mosquito vector control spray pesticides to freshwater receiving waters. *Integrated environmental assessment and management*, 10(3), 449–455. <https://doi.org/10.1002/ieam.1534>
- [Use of butterflies as nontarget insect test species and the acute toxicity and hazard of mosquito control insecticides](#). Hoang, T. C., Pryor, R. L., Rand, G. M., & Frakes, R. A. (2011). Use of butterflies as nontarget insect test species and the acute toxicity and hazard of mosquito control insecticides. *Environmental toxicology and chemistry*, 30(4), 997–1005. <https://doi.org/10.1002/etc.462>
- [Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021](#). Rotkin-Ellman, M., Carpenter, C., Richardson, M.J. et al. Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021. *BMC Public Health* 25, 3121 (2025). <https://doi.org/10.1186/s12889-025-23939-y>
- [Mosquito larvicide and adulticide impacts on western honey bee larvae \(Apis mellifera\) reared in vitro](#). Barascou, L., Ellis, J. D., & Jack, C. (2026). Mosquito larvicide and adulticide impacts on adult western honey bees (*Apis mellifera*) in in vitro cage studies. *Environmental science and pollution research international*, 33(16), 7734–7752. <https://doi.org/10.1007/s11356-026-37783-z>

Gateway Health and Environmental Effects Citations

1. Pesticide Action Network Pesticide Database. http://www.pesticideinfo.org/Search_Chemicals.jsp.
2. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.
<http://extoxnet.orst.edu/pips/ghindex.html>
3. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDS (iREDs) and RED Factsheets.
<https://archive.epa.gov/pesticides/reregistration/web/html/status.html>.

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