

Chemical Factsheet

Diuron

General Information

- Product Names:
 - Topsite** (BASF) formulated with Imazapyr
 - Sahara** (BASF) formulated with Imazapyr
 - Krovar** (Dupont) formulated with [Bromacil](#)
 - Velpar** (Dupont) Formulated with [Hexazinone](#)
 - Troysan** (Troy)
 - Preventol** (Lanxess)
- Chemical Class: Dimethylurea herbicide (also mildewcide and algaecide)
- Uses: Agriculture, ornamentals, ponds, aquariums, paints
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision](#) (RED) signed(9/2003)
- Supporting information:
 - [Extoxnet Pesticide Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database](#): (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Prenatal pesticide exposure and childhood leukemia - A California statewide case-control study](#). Park, A.S., Ritz, B., Yu, F., Cockburn, M. and Heck, J.E., 2020. International journal of hygiene and environmental health, 226, p.113486.
 - [Diuron-induced rat urinary bladder carcinogenesis: mode of action and human relevance evaluations using the International Programme on Chemical Safety framework.](#). Da Rocha MS, Arnold LL, De Oliveira ML, Catalano SM, et al. 2014. Crit Rev Toxicol. 44(5):393-406.

- [Estimating the aquatic risk from exposure to up to twenty-two pesticide active ingredients in waterways discharging to the Great Barrier Reef](https://www.sciencedirect.com/science/article/pii/S0048969723032552). Warne, M. et al. (2023) Estimating the aquatic risk from exposure to up to twenty-two pesticide active ingredients in waterways discharging to the Great Barrier Reef, *Science of The Total Environment*. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969723032552>.
- [Pesticides and prostate cancer incidence and mortality: An environment-wide association study](https://acsjournals.onlinelibrary.wiley.com/doi/10.1002/cncr.35572). Soerensen, S. et al. (2024) Pesticides and prostate cancer incidence and mortality: An environment-wide association study, *Cancer*. Available at: <https://acsjournals.onlinelibrary.wiley.com/doi/10.1002/cncr.35572>.
- [Impact of Endocrine Disrupting Pesticide Use on Obesity: A Systematic Review](https://www.mdpi.com/2227-9059/12/12/2677). Pérez-Bermejo, M. et al. (2024) Impact of Endocrine Disrupting Pesticide Use on Obesity: A Systematic Review, *Biomedicines*. Available at: <https://www.mdpi.com/2227-9059/12/12/2677>.
- [Pesticide exposure and sleep disorder: A cross-sectional study among Thai farmers](https://www.cell.com/heliyon/fulltext/S2405-8440(24)17154-X). Juntarawijit, C. et al. (2025) Pesticide exposure and sleep disorder: A cross-sectional study among Thai farmers, *Heliyon*. Available at: [https://www.cell.com/heliyon/fulltext/S2405-8440\(24\)17154-X](https://www.cell.com/heliyon/fulltext/S2405-8440(24)17154-X).
- [Assessment of genetic damage levels in agricultural workers exposed to pesticides in Paraíba, Brazil](https://www.sciencedirect.com/science/article/abs/pii/S1382668925000900). Carvalho-Gonçalves, L. et al. (2025) Assessment of genetic damage levels in agricultural workers exposed to pesticides in Paraíba, Brazil, *Environmental Toxicology and Pharmacology*. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S1382668925000900>.
- [Occurrence of Current-Use Pesticides in Paired Indoor Dust, Drinking Water, and Urine Samples from the United States: Risk Prioritization and Health Implications](https://doi.org/10.1021/acs.est.5c00961). Xie, Y., Li, J., Salamova, A., & Zheng, G. (2025). Occurrence of Current-Use Pesticides in Paired Indoor Dust, Drinking Water, and Urine Samples from the United States: Risk Prioritization and Health Implications. *Environmental science & technology*, 59(25), 12507–12519. <https://doi.org/10.1021/acs.est.5c00961>
- [Pesticide Prioritization by Potential Biological Effects in Tributaries of the Laurentian Great Lakes](https://doi.org/10.1002/etc.5522). Oliver, S.K., Corsi, S.R., Baldwin, A.K., Nott, M.A., Ankley, G.T., Blackwell, B.R., Villeneuve, D.L., Hladik, M.L., Kolpin, D.W., Loken, L., DeCicco, L.A., Meyer, M.T. and Loftin, K.A. (2023), Pesticide Prioritization by Potential Biological Effects in Tributaries of the Laurentian Great Lakes. *Environ Toxicol Chem*, 42: 367-384. <https://doi.org/10.1002/etc.5522>

Gateway Health and Environmental Effects Citations

1. 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>.
2. California Environmental Protection Agency. Proposition 65: Chemicals Known to the State to Cause Cancer or Reproductive Toxicity. Office of Environmental Health Hazard Assessment. February 25, 2022. <https://oehha.ca.gov/media/downloads/proposition-65//p65chemicalslistsingletable2021p.pdf>
3. European Commission. Endocrine Disruptors: Study on Gathering Information on 435 Substances with Insufficient Data. Final Report. EU DG Environment: B4-3040/2001/325850/MAR/C2. BKH Consulting Engineers: M0355037. November 2002. http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh_report.pdf#page=76.
4. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.

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

5. 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.*

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