

Chemical Factsheet

Bromoxynil

General Information

- Product Names:
 - Buctril** (Bayer)
 - Bronate** (Bayer) formulated with [MCPA](#)
 - Huskie** (Bayer) formulated with Methanone
 - Wolverine** (Bayer) formulated with fenoxaprop-p-ethyl
 - Carnivore** (Winfield) formulated with [MCPA](#) and [Fluoxpyr meptyl](#)
 - Vendeta** (Wilbur-Ellis) formulated with [MCPA](#)
 - Starane** (Dow) formulated with [fluroxypr meptyl](#)
 - Maestro** (Nufarm) formulated with [MCPA](#)
- Chemical Class: Benzonitrile herbicide
- Uses: Agriculture, Lawns/broadleaf plants
- Alternatives: [Organic Agriculture](#), [Organic lawn care](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\)](#) signed (9/1998)
- Supporting information:
 - [Extoxnet Pesticide Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database](#): (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Autism: Transient in utero hypothyroxinemia related to maternal flavonoid ingestion during pregnancy and to other environmental antithyroid agents](#). Román, G, C. 2007. Journal of the Neurological Sciences; 262(1-2), pp 15-26
 - [Proximity to residential and workplace pesticides application and the risk of progression of](#)

[Parkinson's diseases in Central California](#). Li, S. et al. (2022) Proximity to residential and workplace pesticides application and the risk of progression of parkinson's diseases in Central California, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969722079542>.

- [Toxicological assessment of bromoxynil and 2-methyl-4-chlorophenoxyacetic acid herbicide in combination on Cirrhinus mrigala using multiple biomarker approach](#). Afzal, F., Ghaffar, A., Jamil, H., Abbas, G., Tahir, R., & Ataya, F. S. (2024). Toxicological assessment of bromoxynil and 2-methyl-4-chlorophenoxyacetic acid herbicide in combination on Cirrhinus mrigala using multiple biomarker approach. The Science of the total environment, 926, 172019. <https://doi.org/10.1016/j.scitotenv.2024.172019>
- [Metabolome disruption of pregnant rats and their offspring resulting from repeated exposure to a pesticide mixture representative of environmental contamination in Brittany](#). Bonvallot N, Canlet C, Blas-Y-Estrada F, Gautier R, Tremblay-Franco M, Chevolleau S, et al. (2018) Metabolome disruption of pregnant rats and their offspring resulting from repeated exposure to a pesticide mixture representative of environmental contamination in Brittany. PLoS ONE 13(6): e0198448. <https://doi.org/10.1371/journal.pone.0198448>

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. 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.
3. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles. <http://extoxnet.orst.edu/pips/ghindex.html>
4. 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>
5. U.S. Geological Survey, Pesticides in the Nation's Streams and Ground Water, 1992-2001. <http://water.usgs.gov/nawqa/pnsp/pubs/circ1291/appendix7>.

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