Chemical Factsheet

Metribuzin

General Information

- Product Names:
  Sencor (Bayer)
  Domain (Bayer) formulated with Flufenacet
  F6482 (FMC) formulated Sulfentrazone
  Canopy (Du Pont) formulated with Chlorimuron
  Metric MBZ (Winfield)
  Metri (Unitedd Phosphorus)
  Cloak (Nufarm) formulated with Chlorimuron
- Chemical Class: Triazine herbicide
- Uses: Control of broadleaf weeds and grasses on food crops: wheat, asparagus, carrots, tomato, barley, corn, wheat, peas, soybean, potato, garbanzos, lentils, sugarcane; feed crops: barley, bermudagrass, bluegrass, grass (forage/fodder/hay), timothy, wheat, alfalfa, lentils, sainfoin; non-food crop: grasses grown for seed, recreational areas, ornamental lawns and turf (no residential uses).
- Alternatives: Organic agriculture
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
  - EPA Reregistration Eligibility Decision (RED) signed (6/1997)
- Supporting information:
  - Extoxnet Metribuzin Factsheet (Extension Toxicology Network)
  - PAN Pesticide Database – Metribuzin (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Agricultural pesticide use and risk of glioma in Nebraska, United States. Lee, W., et al.

2005. Occupational and Environmental Medicine 62(11):786-792
- Aqueous chlorination of herbicide metribuzin: Identification and elucidation of “new” disinfection by-products, degradation pathway and toxicity evaluation. de Barros, André Luis Corrêa et al. “Aqueous chlorination of herbicide metribuzin: Identification and elucidation of "new" disinfection by-products, degradation pathway and toxicity evaluation.” Water research vol. 189 (2021): 116545. doi:10.1016/j.watres.2020.116545
- Species-specific aquatic habitat use predicts pesticide residues in feces of insectivorous birds and bats. Lorenz, S. et al. (2026) Species-specific aquatic habitat use predicts pesticide residues in feces of insectivorous birds and bats, Environmental Pollution. Available at: https://www.sciencedirect.com/science/article/pii/S0269749126005762.

Gateway Health and Environmental Effects Citations

1. Colborn, T., D. Dumanoski, and J.P. Myers. 1996. Our Stolen Future: Are We Threatening Our Fertility, Intelligence, and Survival? New York: Dutton. http://ourstolenfuture.org/Basics/chemlist.htm

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. 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.

4. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles. http://extoxnet.orst.edu/pips/ghindex.html

Factsheet generated on July 9, 2026