

# Chemical Factsheet

## MCPA

### General Information

- Product Names:
  - Riverdale Tri-Power** (Nufarm Americas), formulated with [Dicamba](#), [Mecoprop](#)
  - Lawn Pro Weed N' Feed** (Scotts Company), formulated with [Mecoprop](#)
  - Proturf Fertilizer Plus Dicot Weed Control IV** (Andersons Lawn Fertilizer), formulated with [Mecoprop](#)
  - Trimec 1158 Broadleaf Herbicide** (PBI/Gordon), formulated with [Dicamba](#), [Mecoprop](#)
  - EH1153 Weed and Feed** (PBI/Gordon), formulated with [Dicamba](#), [Mecoprop](#)
- Chemical Class: Phenoxy herbicide
- Uses: Alfalfa, barley, clover, flax, lespedeza, oats, grass, peas, rice, rye, sorghum, trefoil, triticale, and wheat, as well as grass grown for seed, to control a wide spectrum of broadleaf weeds. registered for use on residential lawns, sod farm turf, golf courses, rights-of-way, pasture, and rangeland.
- Alternatives: [Agriculture/pasture](#), [lawns](#), [rights-of-way](#)
- 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: Yes (1)
- Sensitizer/ Irritant: Yes (2)
- Birth/Developmental: Not documented
- Detected in Groundwater: Yes (3)
- Potential Leacher: Yes (1)
- Toxic to Birds: Yes (2)
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Yes (4)

### Residential Uses as Found in the ManageSafe™ Database

- [Dandelions](#)
- [Plantains](#)

### Additional Information

- Regulatory Status:
  - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (9/2004)
- Supporting information:
  - [Exttoxnet MCPA Factsheet](#) (Extension Toxicology Network, 1996)

- [World Health Organization \(WHO\) Chemical fact sheets: MCPA](#) (2022)
- [PAN Pesticides Database: MCPA](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [A Case-Control Study of Non-Hodgkin Lymphoma and Exposure to Pesticides](#) Journal of the American Cancer Society, 1999.
  - [Birth Malformations and Other Adverse Perinatal Outcomes in Four U.S. Wheat-Producing States..](#) Schreinemachers, D. 2003. Environmental Health Perspectives, 111(9).
  - [Exposure to pesticides as risk factor for non-Hodgkin's lymphoma and hairy cell leukemia: pooled analysis of two Swedish case-control studies..](#) Hardell, L., et al. 2002. Leuk Lymphoma 43(5):1043-1049
  - [Kidney biomarkers in MCPA-induced acute kidney injury in rats: Reduced clearance enhances early biomarker performance.](#) Wunnapuk, K. (2014) Kidney biomarkers in MCPA-induced acute kidney injury in rats: Reduced clearance enhances early biomarker performance, Toxicology Letters. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0378427414000290>.
  - [Short-term oral and dermal toxicity of MCPA and MCPP.](#) Verschuuren, H. et al. (1975) Short-term oral and dermal toxicity of MCPA and MCPP, Toxicology. Available at: <https://www.sciencedirect.com/science/article/abs/pii/0300483X75900360>.
  - [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>.
  - [A review of the pesticide MCPA in the land-water environment and emerging research needs.](#) Morton, P. et al. (2020) A review of the pesticide MCPA in the land-water environment and emerging research needs, WIREs Water. Available at: <https://wires.onlinelibrary.wiley.com/doi/full/10.1002/wat2.1402>.
  - [Estimating the aquatic risk from exposure to up to twenty-two pesticide active ingredients in waterways discharging to the Great Barrier Reef.](#) 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>.
  - [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>
  - [Broad-scale pesticide screening finds anticoagulant rodenticide and legacy pesticides in Australian frogs.](#) Rowley, J. et al. (2024) Broad-scale pesticide screening finds anticoagulant rodenticide and legacy pesticides in Australian frogs, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S004896972402672X>.

## Gateway Health and Environmental Effects Citations

1. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.  
<http://extoxnet.orst.edu/pips/ghindex.html>
2. 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>.

3. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)

4. 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>

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