

Chemical Factsheet

Mecoprop (MCP)

General Information

- Fact Sheet: [mecoprop.pdf](#)
- Product Names:
 - Riverdale Triamine** (Nufarm) formulated with [Dicamba](#), and [2,4-D](#)
 - Riverdale Triplet** (Nufarm) formulated with [Dicamba](#), and [2,4-D](#)
 - Viper** (Nufarm) formulated with [Dicamba](#), and [2,4-D](#)
 - Miracle-Gro Weed & Feed** (Scotts) formulated with [2,4-D](#)
 - Turf Builder** (Scotts) formulated with [2,4-D](#)
 - Gordon's Trimec Weed & Feed** (PBI/Gordon) formulated with [Dicamba](#), and [2,4-D](#)
 - Gordon's Triple Play** (PBI/Gordon) formulated with [Dicamba](#), and [2,4-D](#)
 - One Time** (BASF) formulated with [Dicamba](#), and Quinclorac
 - Chemsico Spot Weed Killer** (Chemscio) formulated with [Dicamba](#) and [2,4-D](#)
 - Power Zone** (PBI/Gordon) formulated with [Dicamba](#), [MCPA](#), and [Carfentrazone-ethyl](#)
- Uses: Broadleaf weed control in lawns, recreational turf, sports fields, sod farms, roadsides, industrial sites, and rights-of-ways.
- Alternatives: [Least-toxic rights-of-way](#), [organic landscape management](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Yes (1)
- Endocrine Disruption: Not documented
- Reproductive Effects: Yes (2)
- Neurotoxicity: Yes (3)
- Kidney/Liver Damage: Yes (3)
- Sensitizer/ Irritant: Yes (3)
- Birth/Developmental: Yes (3)
- Detected in Groundwater: Yes (4)
- Potential Leacher: Yes (2)
- Toxic to Birds: Yes (5)
- Toxic to Fish/Aquatic Organisms: Yes (6)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

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

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (8/2007)

- Supporting information:
 - [NCAP Mecoprop Factsheet](#) (Northwest Coalition for Alternatives to Pesticides)
 - [Exttoxnet Mecoprop Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database:Mecoprop](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Developmental Toxicity of a Commercial Herbicide Mixture in Mice: I. Effects on Embryo Implantation and Litter Size](#). Cavieres, M., et al. 2002. Environ Health Perspect 110:1081-1085
 - [Organic farming reduces pesticide load in a bird of prey](#). Fuentes, E. et al. (2024) Organic farming reduces pesticide load in a bird of prey, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969724029255>.
 - [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>.

Gateway Health and Environmental Effects Citations

1. EPA weight-of-evidence category, "possible human carcinogen." US EPA, 2004. Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. July 29, 2004.
<http://www.epa.gov/pesticides/carlist/>
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>.
4. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)
5. Mineau, P., A. Baril, B.T. Collins , J. Duffe, G. Joerman, R. Luttik. 2001. Reference values for comparing the acute toxicity of pesticides to birds. Reviews of Environmental Contamination and Toxicology 170:13-74.
<http://web.archive.org/web/20081006213641/http://www.abcbirds.org/abcprograms/policy/pesticides/aims/aims/toxicitytable.cfm>
6. Northwest Coalition for Alternatives to Pesticides (NCAP), Pesticide Factsheets.
<http://www.pesticide.org/pesticide-factsheets>.

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