Chemical Factsheet

Triclopyr

General Information

- Fact Sheet: Triclopyr.pdf
- Product Names:
  Forestry Garlon 4 (Dow)
  Garlon 4 (Dow)
  Remedy (Dow)
  Turflon Ester (Dow)
  Garlon 3A (Dow)
  Grandstand CA (Dow)
  Grandstand R (Dow)
  Pathfinder II (Dow)
  Remedy RTU (Dow)
  Redeem R&P (Dow), formulated with Clopyralid TEA
  Confront (Dow), formulated with Clopyralid
  PastureGard (Dow), formulated with Fluroxypyr
- Chemical Class: Pyridine compound herbicide
- Uses: Control broad leaf weeds and brush on rights-of-way,pasture and rangelands, forests, rice, and turf, including home lawns
- Alternatives: Least-Toxic Weed Managment, Organic Agriculture, Organic Lawn Care
- 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: Not documented
- Kidney/Liver Damage: Yes (**2**)
- Sensitizer/ Irritant: Yes (**3**)
- Birth/Developmental: Yes (**1**)
- Detected in Groundwater: Yes (**1**)
- Potential Leacher: Yes (**3**)
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (**3**)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- Dandelions
- Plantains
- Japanese Knotweed
- Chickweed

Additional Information

- Regulatory Status:
  - EPA Reregistration Eligibility Decision (RED) signed (9/1997)
  - Beyond Pesticides' Comments (September 2025)
  - Beyond Pesticides' Tolerance Comments (April 2026)
- Supporting information:
  - The Safer Choice (Beyond Pesticides)
  - NCAP Triclopyr Factsheet (Northwest Coalition for Alternatives to Pesticides)
  - Extoxnet Triclopyr Factsheet (Extension Toxicology Network)
  - PAN Pesticides Database: Triclopyr (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - US EPA's regulatory pesticide evaluations need clearer guidelines for considering mammary gland tumors and other mammary gland effects. Cardona, B. and Rudel, R.A., 2020. Molecular and Cellular Endocrinology, p.110927.
  - A case of fatal intoxication by ingestion of an herbicide formulation containing fluroxypyr-meptyl and triclopyr. Jang, M. et al. (2021) A case of fatal intoxication by ingestion of an herbicide formulation containing fluroxypyr-meptyl and triclopyr, Forensic Science International. Available at: https://www.sciencedirect.com/science/article/abs/pii/S0379073821000372.
  - Persistence of triclopyr, dicamba, and picloram in the environment following aerial spraying for control of dense pine invasion. Rolando, C.A. et al. (2023) Persistence of Triclopyr, dicamba, and Picloram in the environment following aerial spraying for control of dense pine invasion, Invasive Plant Science and Management. Available at: https://www.cambridge.org/core/journals/invasive-plant-science-and-management/article/persistence-of-triclopyr-dicamba-and-picloram-in-the-environment-following-aerial-spraying-for-control-of-dense-pine-invasion/EC888894C5B7A927AD5E5A3E0C06CD8D.
  - Embryotoxicity Induced by Triclopyr in Zebrafish (Danio rerio) Early Life Stage. Bertoni, Í. et al. (2024) Embryotoxicity Induced by Triclopyr in Zebrafish (Danio rerio) Early Life Stage, Toxics. Available at: https://www.mdpi.com/2305-6304/12/4/255.
  - 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.
  - .
  - Pesticide Prioritization by Potential Biological Effects in Tributaries of the Laurentian Great Lakes. 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. Northwest Coalition for Alternatives to Pesticides (NCAP), Pesticide Factsheets. http://www.pesticide.org/pesticide-factsheets.

2. US EPA, 2000. Table 1: Toxicity Data by Category for Chemicals Listed under EPCRA Section 313. Toxic Release Inventory (TRI) Program. https://www.epa.gov/sites/production/files/documents/hazard_categories.pdf

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.

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