

# Chemical Factsheet

## Fluroxypyr

### General Information

- Product Names:
  - Weld** (Winfield) formulated with MCPA, and Clopyralid
  - Starane** (Dow) formulated with Bromoxynil
- Chemical Class: Pyridinoxy acid herbicide
- Uses: Wheat, barley, oats, fallow croplands, and on-farm non-cropland
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

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

### Additional Information

- Regulatory Status:
  - [EPA Factsheet](#) (1998)
  - [EPA - Fluroxypyr: Draft Human Health Risk Assessment for Registration Review](#) (2018)
- Supporting information:
  - [PAN Pesticides Database: Fluroxypyr](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Exploring associations between residential exposure to pesticides and birth outcomes using the Dutch birth registry](#). Simões, M., Vermeulen, R., Portengen, L., Janssen, N. and Huss, A., 2023. Environment International, p.108085.
  - [Major Pesticides Are More Toxic to Human Cells Than Their Declared Active Principles](#). Mesnage, R. et al. (2014) Major pesticides are more toxic to human cells than their declared active principles, BioMed Research International. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3955666/>.
  - [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>.

## **Gateway Health and Environmental Effects Citations**

1. U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, New Active Ingredients Factsheets:  
<http://web.archive.org/web/20120107215849/http://www.epa.gov/opprd001/factsheets/index.htm>

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