

Chemical Factsheet

Flumioxazin

General Information

- Product Names:
 - Broadstar** (Valent)
 - Chateau** (Valent)
 - Clipper** (Valent)
 - Enlite** (Dupont) formulated with Thifensulfuron, and Chlorimuron
 - Envive** (Dupont) formulated with Thifensulfuron, and Chlorimuron
 - Diligent** (Dupont) formulated with Chlorimuron, and Rimsulfuron
 - Gangster** (Valent)
 - Valor** (Valent)
- Chemical Class: Unclassified
- Uses: Controls broadleaf weeds
- 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: Yes (1)
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Yes (1)
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Yes (1)
- 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](#)
- Supporting information:
 - [PAN Pesticides Database](#): (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Immune response of Brazilian farmers exposed to multiple pesticides](#). Jacobsen-Pereira, C.H. et al. (2020) 'Immune response of Brazilian farmers exposed to multiple pesticides', *Ecotoxicology and Environmental Safety*, 202, p. 110912. doi:10.1016/j.ecoenv.2020.110912.
 - [Oxidative stress contributes to flumioxazin-induced cardiotoxicity in zebrafish embryos](#).

Ma, J., Jiang, P., Huang, Y., Lu, C., Tian, G., Xiao, X., Meng, Y., Xiong, X., Cheng, B., Wang, D. and Lu, H. (2023), Oxidative stress contributes to flumioxazin-induced cardiotoxicity in zebrafish embryos. *Environ Toxicol Chem*, 42: 2737-2746.
<https://doi.org/10.1002/etc.5746>

- [Currently used and legacy pesticides in the marine atmosphere from Patagonia to Europe.](#)
Debler, F., Gandrass, J., Paul Ramacher, M. O., Koenig, A. M., Zimmermann, S., & Joerss, H. (2025). Currently used and legacy pesticides in the marine atmosphere from Patagonia to Europe. *Environmental pollution* (Barking, Essex : 1987), 373, 126175. Advance online publication. <https://doi.org/10.1016/j.envpol.2025.126175>

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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