

Chemical Factsheet

Imazapic

General Information

- Product Names:
 - Cadre dg peanut herbicide
 - Cadre herbicide technical
 - Eti 115 h technical
 - Imazapic technical
 - Journey herbicide
 - Kifix 70 dg herbicide
 - Nufarm imazapic 2sl herbicide
 - Oasis herbicide
 - Plateau dg herbicide
- Chemical Class: Imidazolinone
- Uses: Control selected annual and perennial grasses and broadleaf weeds.
- Alternatives: [Organic Agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: N/A
- Endocrine Disruption: N/A
- Reproductive Effects: N/A
- Neurotoxicity: N/A
- Kidney/Liver Damage: Slight (1)
- Sensitizer/ Irritant: Eye Irritant (2)
- Birth/Developmental: N/A
- Detected in Groundwater: Yes (2, 1)
- Potential Leacher: Moderate (2, 1)
- Toxic to Birds: Low (2)
- Toxic to Fish/Aquatic Organisms: Possible (3)
- Toxic to Bees: Low (2)

Additional Information

- Regulatory Status:
 - [Federal Register :: Imazapic; Pesticide Tolerance](#) (12/26/2001)
 - [Imidazolinone Herbicides: Imazamox, Imazapic, and Imazethapyr. Draft Human Health Risk Assessment for Registration Review](#) (2018)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Gupta, P.K., 2018. Toxicity of herbicides. In *Veterinary toxicology* \(pp. 553-567\). Academic Press.](#)
 - [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>.

- [The effect of microplastics on behaviors of chiral imidazolinone herbicides in the aquatic environment: Residue, degradation and distribution](#). Hu, M., Hou, N., Li, Y., Liu, Y., Zhang, H., Zeng, D., & Tan, H. (2021). The effect of microplastics on behaviors of chiral imidazolinone herbicides in the aquatic environment: Residue, degradation and distribution. *Journal of hazardous materials*, 418, 126176. <https://doi.org/10.1016/j.jhazmat.2021.126176>

Gateway Health and Environmental Effects Citations

1. Washington State Board of Transportation. 2021. Imazapic-Roadside Vegetation Management Herbicide Fact Sheet.

<https://wsdot.wa.gov/sites/default/files/2021-10/Herbicides-factsheet-Imazapic.pdf>

2. The University of Hertfordshire. 2021. PPDB: Pesticide Properties DataBase - Imazapic.

<https://sitem.herts.ac.uk/aeru/ppdb/en/Reports/1152.htm>.

3. Golombieski, J.I., Sutili, F.J., Salbego, J., Seben, D., Gressler, L.T., da Cunha, J.A., Gressler, L.T., Zanella, R., de Almeida Vaucher, R., Marchesan, E. and Baldisserotto, B., 2016. Imazapyr+ imazapic herbicide determines acute toxicity in silver catfish *Rhamdia quelen*. *Ecotoxicology and Environmental Safety*, 128, pp.91-99.

<https://www.sciencedirect.com/science/article/abs/pii/S0147651316300410>

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