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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