Chemical Factsheet

Brodifacoum

General Information

- Fact Sheet: Rodenticides.pdf
- Product Names:
  Final Soft Bait
  Formus All-Weather Blox
  Brodifacoum-25w Conservation
  Brodifacoum-25d Conservation
  Talon Soft
  Brodifacoum Paste
  Weather Blok Ag Bait With Bitrex
  Talon-G Rodenticide Pellets With Bitrex
  Talon Weatherblok Xt
  Havoc Rodenticide Bait Pack Pellets With Bitrex
  Final Rodenticide Place Pacs
  Final Rodenticide
  Final All-Weather Blox
  Final Rodenticide Ready-To-Use Place Pacs
  Bdf Chunks
  Bdf Rodenticide Bait
  Talon-G Rodenticide Bait Pack Mini-Pellets With Bitrex
  Brodifacoum Concentrate Ii
  Brodifacoum Concentrate
  Brodifacoum Technical
  Technical Brodifacoum
- Chemical Class: 4-hydroxycoumarin
- Uses: as a second-generation anticoagulant rodenticide (SGAR) to control rats, mice, and other rodents that are resistant to other products.
- Alternatives: Least-toxic Control of Mice, ManageSafe™
- 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: Not documented
- 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 Assessment of the Risk to Nontarget Predators and Scavengers (2005)
  - EPA Office of Pesticide Programs Database
  - California DPR SGAR Assessment (2013)
  - EPA Releases Rodenticide Strategy, Including Final Biological Evaluation on the Effects of 11 Rodenticides on Endangered Species and Associated Mitigation (2024)
- Supporting information:
  - PAN Pesticides Database: Brodifacoum (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Broad-scale pesticide screening finds anticoagulant rodenticide and legacy pesticides in Australian frogs. Rowley, J. et al. (2024) Broad-scale pesticide screening finds anticoagulant rodenticide and legacy pesticides in Australian frogs, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/pii/S004896972402672X.
  - Heavy rainfall provokes anticoagulant rodenticides' release from baited sewer systems and outdoor surfaces into receiving streams. Regnery, J. et al. (2020) Heavy rainfall provokes anticoagulant rodenticides' release from baited sewer systems and outdoor surfaces into receiving streams, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/pii/S0048969720334252.
  - Widespread detection of second generation anticoagulant rodenticides in Australian native marsupial carnivores. Lohr, M. et al. (2025) Widespread detection of second generation anticoagulant rodenticides in Australian native marsupial carnivores, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/pii/S004896972500467X.
  - Rodenticide contamination of cormorants and mergansers feeding on wild fish. Regnery, J. et al. (2024) Rodenticide contamination of cormorants and mergansers feeding on wild fish, Environmental Chemistry Letters. Available at: https://link.springer.com/article/10.1007/s10311-024-01762-y.
  - Residue profiles of brodifacoum in coastal marine species following an island rodent eradication. Masuda, B. M., Fisher, P., & Beaven, B. (2015). Residue profiles of brodifacoum in coastal marine species following an island rodent eradication. Ecotoxicology and environmental safety, 113, 1–8. https://doi.org/10.1016/j.ecoenv.2014.11.013
  - Non-target species mortality and the measurement of brodifacoum rodenticide residues after a rat (Rattus rattus) eradication on Palmyra Atoll, tropical Pacific. Pitt, William & Berentsen, Are & Shiels, Aaron & Volker, Steven & Eisemann, John & Wegmann, Alexander & Howald, Gregg. (2015). Non-target species mortality and the measurement of brodifacoum rodenticide residues after a rat (Rattus rattus) eradication on Palmyra Atoll, tropical Pacific. Biological Conservation. 185. 10.1016/j.biocon.2015.01.008.

Gateway Health and Environmental Effects Citations

1. National Library of Medicine. PubChem Hazardous Substances Database. PubChem (nih.gov)

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