Chemical Factsheet

Florpyrauxifen-benzyl

Updated June 2019

General Information

- Product Names:
  ProcellaCOR (SePRO)
- Chemical Class: Arylpicolinate class of herbicides; Synthetic auxin
- Uses: Systemic herbicide used on rice, post-emergence grass, sedge, and broadleaf weed control in several states and for national use to control invasive species such as hydrilla, watermilfoil, crested floating heart in freshwater aquatic sites.
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Regulatory Status:
  - EPA Registration (2017)
- Supporting information:
  - EFSA Risk Assessment (2018)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Enhanced Herbicide Metabolism and Target Site Mutation Enabled the Multiple Resistance to Cyhalofop-butyl, Florpyrauxifen-benzyl, and Penoxsulam in Echinochloa crus-galli. Yu, X. et al. (2024) Enhanced Herbicide Metabolism and Target Site Mutation Enabled the Multiple Resistance to Cyhalofop-butyl, Florpyrauxifen-benzyl, and Penoxsulam in Echinochloa crus-galli, Journal of Agricultural and Food Chemistry. Available at: https://pubs.acs.org/doi/abs/10.1021/acs.jafc.4c02450.
  - Short-term immunotoxicity induced by florpyrauxifen-benzyl herbicide exposure in the spleen of male albino mice. Morsi, D. S., Abu Quora, H. A., AboShabaan, H. S., El-Garawani, I. M., Abdel Moneim, A. E., & Hathout, H. M. R. (2024). Short-term

immunotoxicity induced by florpyrauxifen-benzyl herbicide exposure in the spleen of male albino mice. Journal of experimental zoology. Part A, Ecological and integrative physiology, 341(6), 658–671. https://doi.org/10.1002/jez.2814
- The induced hepatotoxicity and genotoxicity in Oreochromis niloticus exposed to a newly released florpyrauxifen-benzyl herbicide. Nabet, N. et al. (2025) The induced hepatotoxicity and genotoxicity in Oreochromis niloticus exposed to a newly released florpyrauxifen-benzyl herbicide, Ecotoxicology. Available at: https://link.springer.com/article/10.1007/s10646-025-02864-1.

Gateway Health and Environmental Effects Citations

1. EFSA, 2018. Peer review of the pesticide risk assessment of the active substance variant florpyrauxifen-benzyl: https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2018.5378.

Factsheet generated on January 31, 2026