Chemical Factsheet

Fenbuconazole

General Information

- Product Names:
  Enable (Dow)
  Indar (Dow)
  Rh-7592 (Dow)
- Chemical Class: Triazole fungicide
- Uses: Agriculture, lawns/broadleaf plants
- Alternatives: Organic agriculture
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

- Cancer: Possible (**1**)
- Endocrine Disruption: Yes (**2**)
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Yes (**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: Yes (**1**)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
  - Pesticide Tolerance - Federal Register
- Supporting information:
  - PAN Pesticides Database: (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Low toxicity crop fungicide (fenbuconazole) impacts reproductive male quality signals leading to a reduction of mating success in a wild solitary bee. Boff, S., Conrad, T., Raizer, J., Wehrhahn, M., Bayer, M., Friedel, A., Theodorou, P., Schmitt, T. & Lupi, D. (2022). Low toxicity crop fungicide (fenbuconazole) impacts reproductive male quality signals leading to a reduction of mating success in a wild solitary bee. Journal of Applied Ecology, 59, 1596–1607. https://doi.org/10.1111/1365-2664.14169
  - Developmental toxicity of fenbuconazole in zebrafish: Effects on mitochondrial respiration and locomotor behavior. Qin, Yingju et al. “Developmental toxicity of fenbuconazole in zebrafish: Effects on mitochondrial respiration and locomotor behavior.” Toxicology vol. 470 (2022): 153137. doi:10.1016/j.tox.2022.153137

Gateway Health and Environmental Effects Citations

1. Federal Register. Fenbuconazole Pesticide Tolerance. January 15, 2002. http://www.epa.gov/fedrgstr/EPA-PEST/2003/March/Day-21/p6822.htm.

2. Colborn, T., D. Dumanoski, and J.P. Myers. 1996. Our Stolen Future: Are We Threatening Our Fertility, Intelligence, and Survival? New York: Dutton. http://ourstolenfuture.org/Basics/chemlist.htm

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