# Chemical Factsheet

## Fenthion

### General Information

- Fact Sheet: Fenthion.pdf
- Product Names:
  **No Currently Registered Products**
- Chemical Class: Organophosphate insecticide
- Uses: Cancelled
- Beyond Pesticides rating: Toxic

### Health and Environmental Effects

*See citations at end of document.*

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Yes (**1**)
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (**2**)
- Toxic to Fish/Aquatic Organisms: Yes (**2**)
- Toxic to Bees: Yes (**3**)

### Additional Information

- Regulatory Status:
  - Cancellation of all registrations (effective 11/2004)
  - EPA Interim Reregistration Eligibility Decision (RED) signed (1/2001)
  - Beyond Pesticides' Organophosphate cumulative risk comments.
- Supporting information:
  - Daily News Blog entries (Beyond Pesticides)
  - Asthma, Children and Pesticides (Beyond Pesticides)
  - Extoxnet Fenthion Factsheet (Extension Toxicology Network)
  - PAN Pesticides Database:Fenthion (Pesticide Action Network)
  - ABC Fenthion Factsheet (American Bird Conservancy)
  - Scorecard Fenthion Factsheet (Environmental Defense Fund)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Assessment of genetic effects and pesticide exposure of farmers in NW Greece. Moshou, H., Karakitsou, A., Yfanti, F., Hela, D., Vlastos, D., Paschalidou, A.K., Kassomenos, P. and Petrou, I., 2020. Environmental Research, p.109558.
  - Case fatality of agricultural pesticides after self-poisoning in Sri Lanka: a prospective cohort study. Buckley, N. A., Fahim, M., Raubenheimer, J., Gawarammana, I. B., Eddleston,

M., Roberts, M. S., & Dawson, A. H. (2021). Case fatality of agricultural pesticides after self-poisoning in Sri Lanka: a prospective cohort study. The Lancet. Global health, 9(6), e854–e862. https://doi.org/10.1016/S2214-109X(21)00086-3

- Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies. Kasiotis, Konstantinos M et al. “Pesticides residues and metabolites in honeybees: A Greek overview exploring Varroa and Nosema potential synergies.” The Science of the total environment vol. 769 (2021): 145213. doi:10.1016/j.scitotenv.2021.145213
- Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021. Rotkin-Ellman, M., Carpenter, C., Richardson, M.J. et al. Temporal trends of agricultural organophosphate pesticide use in California and proximity to pregnant people in 2021. BMC Public Health 25, 3121 (2025). https://doi.org/10.1186/s12889-025-23939-y

## Gateway Health and Environmental Effects Citations

1. US EPA, 2000. Table 1: Toxicity Data by Category for Chemicals Listed under EPCRA Section 313. Toxic Release Inventory (TRI) Program. https://www.epa.gov/sites/production/files/documents/hazard_categories.pdf

2. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDS (iREDs) and RED Factsheets. https://archive.epa.gov/pesticides/reregistration/web/html/status.html.

3. Tew, J.E. 1996. Protecting Honeybees from Pesticides. Ohio State University Cooperative Extension. http://web.archive.org/web/20031123075324/http://beelab.osu.edu/factsheets/sheets/2161.html

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