Chemical Factsheet

Mevinphos

General Information

- Fact Sheet: Mevinphos.pdf
- Product Names:
  Shell Phosdrin Insecticide (Shell Chemical)
  Niagara Phosdrin (FMC)
  Master Brand Phosdrin (Stevens Industries)
  Royal Brand Phosdrin (Southern Agricultural Chemicals)
  Fasco Phosdrin (Landia Chemical), formulated with Endosulfan
- Chemical Class: Organophosphate insecticide
- Uses: No registered uses historically used on vegetables and fruits, predominantly lettuce and cole crops.
- Alternatives: Orgnaic agriculture, Least-toxic insecticides
- 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: Yes (**1**)
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Yes (**1**)
- Toxic to Birds: Yes (**2**)
- Toxic to Fish/Aquatic Organisms: Yes (**2**)
- Toxic to Bees: Yes (**3**)

Additional Information

- Regulatory Status:
  - EPA Tolerance Reassessment Progress and Interim Risk Management Decision Decision (TRED) signed (12/2001)
  - Beyond Pesticides' Organophosphate cumulative risk comments.
- Supporting information:
  - Extoxnet Mevinphos Factsheet (Extension Toxicology Network)
  - PAN Pesticides Database: Mevinphos (Pesticide Action Network)
  - Scorecard Mevinphos Factsheet (Environmental Defense Fund)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Pesticide exposure and sleep disorder: A cross-sectional study among Thai farmers. Juntarawijit, C. et al. (2025) Pesticide exposure and sleep disorder: A cross-sectional study

among Thai farmers, Heliyon. Available at: https://www.cell.com/heliyon/fulltext/S2405-8440(24)17154-X.
- 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. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles. http://extoxnet.orst.edu/pips/ghindex.html

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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