

# Chemical Factsheet

## Terbufos

### General Information

- Product Names:
  - **Counter** (AMVAC Chemical)
- Chemical Class: Organophosphate Insecticide/Nematicide
- Uses: corn, sugar beets, sorghum, imported bananas
- Alternatives: [Organic Agriculture](#)
- 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: 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: Yes (1)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Yes (2)

### Additional Information

- Regulatory Status:
  - [Interim Reregistration Eligibility Decision](#) signed 9/2006
- Supporting information:
  - [PAN Pesticides Database: Terbufos](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Pesticide use and incident Parkinson's disease in a cohort of farmers and their spouses](#). Shrestha, S. et al. (2020) Pesticide use and incident parkinson's disease in a cohort of farmers and their spouses, Environmental research. Available at: <https://www.ncbi.nlm.nih.gov/pmc/articles/PMC7822498/>.
  - [Pesticide use and inflammatory bowel disease in licensed pesticide applicators and spouses in the Agricultural Health Study](#). Chen, D. et al. (2024) Pesticide use and inflammatory bowel disease in licensed pesticide applicators and spouses in the Agricultural Health Study, Environmental Research. Available at: [https://www.sciencedirect.com/science/article/pii/S0013935124003682?ref=pdf\\_download&fr=RR-2&rr=88272c5c9b94942f](https://www.sciencedirect.com/science/article/pii/S0013935124003682?ref=pdf_download&fr=RR-2&rr=88272c5c9b94942f).
  - [Pesticide exposure and increased breast cancer risk in women population studies](#). Panis, C. and Lemos, B. (2024) Pesticide exposure and increased breast cancer risk in women

population studies, Science of The Total Environment. Available at:

<https://www.sciencedirect.com/science/article/pii/S0048969724031358?via%3Dihub>.

- [Child and adolescent mortality associated with pesticide toxicity in Cape Town, South Africa, 2010–2019: a retrospective case review](#). Davies, B., Hlela, M.B.K.M. and Rother, H.-A. (2023) Child and adolescent mortality associated with pesticide toxicity in Cape Town, South Africa, 2010–2019: a retrospective case review, BMC Public Health. Available at: <https://bmcpublichealth.biomedcentral.com/articles/10.1186/s12889-023-15652-5>.
- [High Pesticide Exposure Events and Dream-Enacting Behaviors Among US Farmers](#). Yuan, Y., Shrestha, S., Luo, Z., Li, C., Plassman, B.L., Parks, C.G., Hofmann, J.N., Beane Freeman, L.E., Sandler, D.P. and Chen, H. (2022), High Pesticide Exposure Events and Dream-Enacting Behaviors Among US Farmers. *Mov Disord*, 37: 962-971. <https://doi.org/10.1002/mds.28960>
- [Pesticide use and risk of Hodgkin lymphoma: results from the North American Pooled Project \(NAPP\)](#). Latifovic, L., Freeman, L. E. B., Spinelli, J. J., Pahwa, M., Kachuri, L., Blair, A., Cantor, K. P., Zahm, S. H., Weisenburger, D. D., McLaughlin, J. R., Dosman, J. A., Pahwa, P., Koutros, S., Demers, P. A., & Harris, S. A. (2020). Pesticide use and risk of Hodgkin lymphoma: results from the North American Pooled Project (NAPP). *Cancer causes & control : CCC*, 31(6), 583–599. <https://doi.org/10.1007/s10552-020-01301-4>
- [Association between pesticide exposure and colorectal cancer risk and incidence: A systematic review](#). Matich, E. K., Laryea, J. A., Seely, K. A., Stahr, S., Su, L. J., & Hsu, P. C. (2021). Association between pesticide exposure and colorectal cancer risk and incidence: A systematic review. *Ecotoxicology and environmental safety*, 219, 112327. <https://doi.org/10.1016/j.ecoenv.2021.112327>

## Gateway Health and Environmental Effects Citations

1. 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>.

2. 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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