

Chemical Factsheet

Tribufos

General Information

- Product Names:
 - Ax Tribufos 6** (Axion Ag Products, LLC)
 - Tribufos 6** (Redeagle International LLC)
 - Dft 6 Ec Cotton Defoliant** (Loveland Products, Inc.)
 - Folex 6 Ec** (Amvac Chemical Corporation)
 - Def 6 Emulsifiable Defoliant** (Amvac Chemical Corporation)
 - Def Technical Defoliant** (Amvac Chemical Corporation)
 - Tribufos Technical** (Redeagle International LLC)
- Chemical Class: Organophosphate
- Uses: Used as a pre-harvest defoliant for cotton plants to remove leaves.
- Alternatives: [Organic Agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Yes (1)
- 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: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
 - [EPA Tribufos](#)
 - [Toxicological Profile for S,S,S-Tributyl Phosphorotrithioate \(Tribufos\) March 2020](#) (Agency for Toxic Substances and Disease Registry)
 - [EPA Reaches Agreements on Early Mitigation Measures for Three More Organophosphate Pesticides](#) (May 25, 2023)
- Supporting information:
 - [PubChem Hazardous Substances Database](#) (National Library of Medicine)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [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>

- [Proximity to residential and workplace pesticides application and the risk of progression of Parkinson's diseases in Central California](#). Li, S. et al. (2022) Proximity to residential and workplace pesticides application and the risk of progression of parkinson's diseases in Central California, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969722079542>.
- [Residential proximity to agricultural pesticide exposures during preconception and pregnancy and associations with Apgar scores in the Az-PEAR study \(2006–2020\)](#). Yang, A. et al. (2026) Residential proximity to agricultural pesticide exposures during preconception and pregnancy and associations with Apgar scores in the Az-PEAR study (2006–2020), Journal of Exposure Science & Environmental Epidemiology. Available at: <https://www.nature.com/articles/s41370-026-00849-8>.
- [Preconception and first trimester exposure to pesticides and associations with stillbirth](#). Furlong, M. A., Paul, K. C., Parra, K. L., Fournier, A. J., Ellsworth, P. C., Cockburn, M. G., Arellano, A. F., Bedrick, E. J., Beamer, P. I., & Ritz, B. (2025). Preconception and first trimester exposure to pesticides and associations with stillbirth. American journal of epidemiology, 194(1), 44–55. <https://doi.org/10.1093/aje/kwae198>
- [The USA lags behind other agricultural nations in banning harmful pesticides](#). Donley, N. The USA lags behind other agricultural nations in banning harmful pesticides. Environ Health 18, 44 (2019). <https://doi.org/10.1186/s12940-019-0488-0>

Gateway Health and Environmental Effects Citations

1. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)

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