

# Chemical Factsheet

## Triadimefon

### General Information

- Product Names:
  - Bayleton** (Bayer Cropscience)
  - Golf Products Fungicide VII** (Andersons Lawn Fertilizer)
  - Tartan** (Bayer) formulated with [Trifloxystrobin](#)
  - Armada** (Bayer) formulated with [Trifloxystrobin](#)
  - Shaw's Fungicide** (Knox Fertilizer)
  - Preventol** (Lanxess) formulated with [Tebuconazole](#)
  - Systrex/Nutrient** (Florida Silvics)
- Chemical Class: Triazole fungicide
- Uses: Control of various fungal diseases in fruit (pineapple) and non-food use sites such as: pine seedlings, Christmas trees, residential (sod farm) and commercial turf, ornamentals, and landscapes;  
also a seed treatment on: barley, corn, cotton, oats, rye, sorghum, and wheat
- Alternatives: [Organic agriculture](#), [Organic christmas trees](#), [Organic lawn care](#)
- Beyond Pesticides rating: [Toxic](#)

### Health and Environmental Effects

*See citations at end of document.*

- Cancer: Possible (1)
- Endocrine Disruption: Yes (2, 3)
- Reproductive Effects: Yes (4)
- Neurotoxicity: Yes (5)
- Kidney/Liver Damage: Yes (4)
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Yes (4, 6)
- Detected in Groundwater: Yes (7)
- Potential Leacher: Yes (5)
- Toxic to Birds: Yes (8)
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Not documented

### Additional Information

- Regulatory Status:
  - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (8/2006) most uses cancelled in 2006
- Supporting information:
  - [Exttoxnet Triadimefon Factsheet](#) (Extension Toxicology Network)
  - [PAN Pesticides Database:Triadimefon](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
  - [Pesticide-Induced Inflammation at a Glance](#). Lopes-Ferreira, M. et al. (2023) 'Pesticide-induced inflammation at a glance', *Toxics*, 11(11), p. 896. doi:10.3390/toxics11110896.

- [Predicted no-effect concentration \(PNEC\) and assessment of risk for the fungicide, triadimefon based on reproductive fitness of aquatic organisms](https://doi.org/10.1016/j.chemosphere.2018.05.093). Liu, N., Jin, X., Zhou, J., Wang, Y., Yang, Q., Wu, F., Giesy, J. P., & Johnson, A. C. (2018). Predicted no-effect concentration (PNEC) and assessment of risk for the fungicide, triadimefon based on reproductive fitness of aquatic organisms. *Chemosphere*, 207, 682–689. <https://doi.org/10.1016/j.chemosphere.2018.05.093>

## Gateway Health and Environmental Effects Citations

1. EPA weight-of-evidence category, "possible human carcinogen." US EPA, 2004. Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. July 29, 2004. <http://www.epa.gov/pesticides/carlist/>
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>
3. European Commission. Endocrine Disruptors: Study on Gathering Information on 435 Substances with Insufficient Data. Final Report. EU DG Environment: B4-3040/2001/325850/MAR/C2. BKH Consulting Engineers: M0355037. November 2002. [http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh\\_report.pdf#page=76](http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh_report.pdf#page=76).
4. 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](https://www.epa.gov/sites/production/files/documents/hazard_categories.pdf)
5. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles. <http://extoxnet.orst.edu/pips/ghindex.html>
6. California Environmental Protection Agency. Proposition 65: Chemicals Known to the State to Cause Cancer or Reproductive Toxicity. Office of Environmental Health Hazard Assessment. February 25, 2022. <https://oehha.ca.gov/media/downloads/proposition-65/p65chemicalslistsinglelisttable2021p.pdf>
7. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](https://pubchem.ncbi.nlm.nih.gov/)
8. Briggs, S.A. 1992. *Basic Guide to Pesticides: Their Characteristics and Hazards*. Washington, DC: The Rachel Carson Council, 98. <https://www.cabdirect.org/cabdirect/abstract/19932334845>

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