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:
  - Extoxnet 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. 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
- Combined toxic effects of fludioxonil and triadimefon on embryonic development of zebrafish (Danio rerio). Wang, Y., Xu, C., Wang, D., Weng, H., Yang, G., Guo, D., Yu, R., Wang, X., & Wang, Q. (2020). Combined toxic effects of fludioxonil and triadimefon on embryonic development of zebrafish (Danio rerio). Environmental pollution (Barking, Essex : 1987), 260, 114105. https://doi.org/10.1016/j.envpol.2020.114105

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.

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

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)

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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