Chemical Factsheet

Pyrimethanil

General Information

- Product Names:
  Scala (Bayer)
  Distinguish (Bayer) formulated with Trifloxstrobin
  Luna (Bayer) formulated with Fluopyram
  Penbotec (Janssen)
  Philabuster (Janssen) formulated with Imazalil sulphate
  EcoFOG-160 (Pace)
- Chemical Class: Pyrimidine
- Uses: Fungicide
- Alternatives: Organic agriculture
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

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

Additional Information

- Supporting information:
  - PAN Database: Pyrimethanil (Pesticide Action Network North America)
  - New York State Department of Environmental Conservation
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Respiratory and allergic outcomes among 5-year-old children exposed to pesticides. Islam, J.Y. et al. (2023) Respiratory and allergic outcomes among 5-year-old children exposed to pesticides, Thorax. Available at: https://thorax.bmj.com/content/78/1/41.abstract.
  - A Th2-type immune response and low-grade systemic inflammatory reaction as potential immunotoxic effects in intensive agriculture farmers exposed to pesticides . Lozano-Paniagua, D. et al. (2024) 'A th2-type immune response and low-grade systemic inflammatory reaction as potential immunotoxic effects in intensive agriculture farmers

exposed to pesticides', Science of The Total Environment, 938, p. 173545. doi:10.1016/j.scitotenv.2024.173545.
- Respiratory and allergic outcomes among farmworkers exposed to pesticides in Costa Rica. Rodríguez-Zamora, M. G., Fuhrimann, S., Winkler, M. S., Rosa, M. J., Reich, B., Lindh, C., & Mora, A. M. (2024). Respiratory and allergic outcomes among farmworkers exposed to pesticides in Costa Rica. The Science of the total environment, 954, 176776. https://doi.org/10.1016/j.scitotenv.2024.176776

Gateway Health and Environmental Effects Citations

1. Pesticide Action Network Pesticide Database. http://www.pesticideinfo.org/Search_Chemicals.jsp.

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. Coleman, M.D., O'Neil, J.D., Woehrling, E.K., Ndunge, O.B.A., Hill, E.J., Menache, A. and Reiss, C.J., 2012. A preliminary investigation into the impact of a pesticide combination on human neuronal and glial cell lines in vitro. *PloS one*, *7*(8), p.e42768. https://doi.org/10.1371/journal.pone.0042768

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