Chemical Factsheet

Cyprodinil

General Information

- Product Names:
  Inspire (Syngenta) formulated with Difenoconazole
  Palladium (Syngenta) formulated with fludioxonil
  Switch (Syngenta) formulated with Fludioxonil
  Vangard (Syngenta)
- Chemical Class: Anilino-pyrimidine Fungicide
- Uses: Agriculture
- 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: Possible (**1**)
- Kidney/Liver Damage: Not documented
- 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 (**2**)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
  - EPA Factsheet (4/1998)
- Supporting information:
  - PAN Pesticides Database: (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Organic farming reduces pesticide load in a bird of prey. Fuentes, E. et al. (2024) Organic farming reduces pesticide load in a bird of prey, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/pii/S0048969724029255.
  - 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.

- Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air. Mayer, L., Degrendele, C., Šenk, P., Kohoutek, J., Přibylová, P., Kukučka, P., Melymuk, L., Durand, A., Ravier, S., Alastuey, A., Baker, A. R., Baltensperger, U., Baumann-Stanzer, K., Biermann, T., Bohlin-Nizzetto, P., Ceburnis, D., Conil, S., Couret, C., Degórska, A., Diapouli, E., … Lammel, G. (2024). Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air. Environmental science & technology, 58(7), 3342–3352. Advance online publication. https://doi.org/10.1021/acs.est.3c08488
- High temporal resolution pollen analysis: New insights into current-use pesticides distribution in agricultural landscapes. Cirelli, S. et al. (2026) High temporal resolution pollen analysis: New insights into current-use pesticides distribution in agricultural landscapes, Environmental Pollution. Available at: https://www.sciencedirect.com/science/article/pii/S0269749126007189.

Gateway Health and Environmental Effects Citations

1. 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

2. U.S. EPA, Office of Prevention, Pesticides and Toxic Substances, New Active Ingredients Factsheets: http://web.archive.org/web/20120107215849/http://www.epa.gov/opprd001/factsheets/index.htm

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