Chemical Factsheet

Ipconazole

General Information

- Product Names:
  Racona (Chemtura)
  Vortex (Bayer) formulated with Metalaxyl
- Chemical Class: Triazole
- Uses: Non-food use, seed treatment fungicide for various crops, turfgrass, ornamental flowers and conifers
- Alternatives: Organic agriculture
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

- Cancer: Not likely (**1**)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Potential (**1**)
- 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: Not documented
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
  - EPA Fact Sheet (September 2004)
- Supporting information:
  - PAN Pesticides Database (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Oxidative and Molecular–Structural Alterations of Spermatozoa in Swine and Ram Exposed to the Triazole Ipconazole. Falero, C. et al. (2025) Oxidative and Molecular–Structural Alterations of Spermatozoa in Swine and Ram Exposed to the Triazole Ipconazole, Toxics. Available at: https://www.mdpi.com/2305-6304/13/3/176.
  - Ipconazole Induces Oxidative Stress, Cell Death, and Proinflammation in SH-SY5Y Cells. Villaorduña, C., Mendoza-Carlos, M., Chuyma, M., Avilés, J., Avalos-Diaz, A., Lozano-Reategui, R., Garcia-Ruiz, J., Panduro-Tenazoa, N., Vargas, J., Moran-Quintanilla, Y., & Rodríguez, J. L. (2023). Ipconazole Induces Oxidative Stress, Cell Death, and Proinflammation in SH-SY5Y Cells. Toxics, 11(7), 566. https://doi.org/10.3390/toxics11070566

- The Fungicide Ipconazole Can Activate Mediators of Cellular Damage in Rat Brain Regions. Villaorduña, C., Barrios-Arpi, L., Lira-Mejía, B., Ramos-Gonzalez, M., Ramos-Coaguila, O., Inostroza-Ruiz, L., Romero, A., & Rodríguez, J.-L. (2024). The Fungicide Ipconazole Can Activate Mediators of Cellular Damage in Rat Brain Regions. Toxics, 12(9), 638. https://doi.org/10.3390/toxics12090638

Gateway Health and Environmental Effects Citations

1. 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

Factsheet generated on May 27, 2026