

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>

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