

Chemical Factsheet

Pymetrozine

General Information

- Product Names:
 - Fulfill** (Syngenta)
 - Endeavor** (Syngenta)
- Chemical Class: Pyridine azomethines
- Uses: Control whiteflies and aphids
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Likely (1)
- Endocrine Disruption: No
- Reproductive Effects: Yes (1)
- Neurotoxicity: Yes (1)
- Kidney/Liver Damage: Yes (1)
- Sensitizer/Irritant: Yes (1)
- Birth/Developmental: Yes (1)
- 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 Factsheet](#) (2000)
- Supporting information:
 - [PAN Pesticides Database: Pymetrozine](#)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Immune response of Brazilian farmers exposed to multiple pesticides](#). Jacobsen-Pereira, C.H. et al. (2020) 'Immune response of Brazilian farmers exposed to multiple pesticides', *Ecotoxicology and Environmental Safety*, 202, p. 110912. doi:10.1016/j.ecoenv.2020.110912.
 - [Lethal, sublethal, and combined effects of pesticides on bees: A meta-analysis and new risk assessment tools](#). Tosi, S., Sfeir, C., Carnesecchi, E., vanEngelsdorp, D., & Chauzat, M. P. (2022). Lethal, sublethal, and combined effects of pesticides on bees: A meta-analysis and new risk assessment tools. *The Science of the total environment*, 844, 156857. <https://doi.org/10.1016/j.scitotenv.2022.156857>
 - [Characterization of aggregated exposure to multiple pesticides near agricultural fields: an application of silicone wristbands](#). Ottenbros, Ilse & Vermeulen, R & Krop, E & Beeltje,

Henry & Fuhrmann, Samuel & Figueiredo, Daniel. (2025). Characterization of aggregated exposure to multiple pesticides near agricultural fields: an application of silicone wristbands. Environmental Research Communications. 7. 10.1088/2515-7620/adc547.

- [Pesticides in Cannabis: The Need for Evidence to Inform Policy and Protect Patients](#). Watson, T. D., Glodosky, N. C., Johnson, T. J., Poolman, N., Mistretta, A., & Okey, S. A. (2026). Pesticides in Cannabis: The Need for Evidence to Inform Policy and Protect Patients. Clinical therapeutics, S0149-2918(26)00037-8. Advance online publication. <https://doi.org/10.1016/j.clinthera.2026.02.003>

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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