Chemical Factsheet

Kresoxim-methyl

General Information

- Product Names:
  Cygnus (BASF)
  Sovran (BASF)
- Chemical Class: Strobin
- Uses: Applied as a spray to control powdery mildew on greenhouse-grown ornamental crops.
- Alternatives: Organic agriculture
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

- Cancer: Likely (**1**)
- Endocrine Disruption: Not documented
- Reproductive Effects: Not documented
- Neurotoxicity: Not documented
- 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 (9/1998)
- Supporting information:
  - PAN Pesticide Database – Kresoxim-methyl (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Prenatal pesticide exposure and childhood leukemia - A California statewide case-control study. Park, A.S., Ritz, B., Yu, F., Cockburn, M. and Heck, J.E., 2020. International journal of hygiene and environmental health, 226, p.113486.
  - Prenatal ambient pesticide exposure and childhood retinoblastoma. Thompson, S., Ritz, B., Cockburn, M. and Heck, J.E., 2022. International Journal of Hygiene and Environmental Health, 245, p.114025.
  - Fate of pesticide residues in beer and its by-products. Hakme, E., Kallehauge Nielsen, I., Fermina Madsen, J., Storkehave, L. M., Skjold Elmelund Pedersen, M., Schulz, B. L., … Duedahl-Olesen, L. (2023). Fate of pesticide residues in beer and its by-products. Food Additives & Contaminants: Part A, 41(1), 45–59. https://doi.org/10.1080/19440049.2023.2282557

- Mitochondrial dysfunction induced in human hepatic HepG2 cells exposed to the fungicide kresoxim-methyl and to a mixture kresoxim-methyl/boscalid. Vandensande, Y., Carbone, M., Mathieu, B., & Gallez, B. (2024). Mitochondrial dysfunction induced in human hepatic HepG2 cells exposed to the fungicide kresoxim-methyl and to a mixture kresoxim-methyl/boscalid. Redox Report, 29(1). https://doi.org/10.1080/13510002.2024.2424677

Gateway Health and Environmental Effects Citations

1. EPA weight-of-evidence category, "Likely to be carcinogenic to humans." US EPA, 2005. Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. May 10, 2005. http://www.fluoridealert.org/wp-content/pesticides/pesticides.cancer.potential.2006.pdf

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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