Chemical Factsheet

Benalaxyl-M

General Information

- Chemical Class: Unclassified (Xylylalanine)
- Uses: Not U.S. EPA Registered: a phenyl-amide fungicide which is effective in controlling downy mildew of grapes. The mode of action involves inhibiting nucleic RNA polymerase enzyme.
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects
See citations at end of document.

- Cancer: Yes (**1**, **2**)
- Endocrine Disruption: Suggestive (**2**)
- Reproductive Effects: Insufficiently Studied
- Neurotoxicity: Possible (**3**)
- Kidney/Liver Damage: Yes (**2**)
- Sensitizer/ Irritant: Not Likely
- Birth/Developmental: Insufficiently Studied
- Detected in Groundwater: Potential (**4**)
- Potential Leacher: Low (**4**)
- Toxic to Birds: Moderate (**4**)
- Toxic to Fish/Aquatic Organisms: Moderate (**4**)
- Toxic to Bees: Moderate (**4**)

Additional Information

Gateway Health and Environmental Effects Citations

1. US EPA Office of Pesticide Programs. List of Chemicals Evaluated for Carcinogenic Potential. October 30, 2023. http://npic.orst.edu/chemicals_evaluated.pdf

2. USEPA, 2015. Benalaxyl-M; Pesticide Tolerances. https://www.federalregister.gov/documents/2015/07/30/2015-18741/benalaxyl-m-pesticide-tolerances

3. European Food Safety Authority (EFSA), Anastassiadou, M., Arena, M., Auteri, D., Brancato, A., Bura, L., Carrasco Cabrera, L., Chaideftou, E., Chiusolo, A., Court Marques, D. and Crivellente, F., 2020. Peer review of the pesticide risk assessment of the active substance benalaxyl. *EFSA Journal*, *18*(1), p.e05985. https://efsa.onlinelibrary.wiley.com/doi/epdf/10.2903/j.efsa.2020.5985

4. The University of Hertfordshire. 2021. Pesticide Properties DataBase (PPDB): Benalaxyl-M. https://sitem.herts.ac.uk/aeru/ppdb/en/Reports/1010.htm

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