Chemical Factsheet

Myclobutanil

General Information

- Product Names:
  Nu-Flow CT (Wibur-Ellis)
  Spera Coat Seed Treatment (Nufarm) formulated with Metalaxyl
  Rally 60 DF (Dow)
  Systhane (Dow)
  Nova (Dow)
  Eagle (Dow)
  Laredo (Dow)
  Disarm (Arystra) formulated with Fluoxastrobin
  Siskin (United Phosphorus)
- Chemical Class: Azole fungicide
- Uses: Agriculture
- Alternatives: Organic agriculture
- Beyond Pesticides rating:

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Suspected (**1**)
- Reproductive Effects: Yes (**2**)
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: No
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (**3**)
- Toxic to Fish/Aquatic Organisms: Yes (**4**)
- Toxic to Bees: Not documented

Residential Uses as Found in the ManageSafe™ Database

- Apple and Pear Scab

Additional Information

- Supporting information:
  - PAN Pesticides Database (Pesticide Action Network North America)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Prenatal and infant exposure to ambient pesticides and autism spectrum disorder in children: population based case-control study. von Ehrenstein, et al. 2019. BMJ

2019;364:l962
- Organic farming reduces pesticide load in a bird of prey. Fuentes, E. et al. (2024) Organic farming reduces pesticide load in a bird of prey, Science of The Total Environment. Available at: https://www.sciencedirect.com/science/article/pii/S0048969724029255.
- The influence of polyethylene microplastics on pesticide residue and degradation in the aquatic environment. Wang, F., Gao, J., Zhai, W., Liu, D., Zhou, Z., & Wang, P. (2020). The influence of polyethylene microplastics on pesticide residue and degradation in the aquatic environment. Journal of hazardous materials, 394, 122517. https://doi.org/10.1016/j.jhazmat.2020.122517
- Evaluation of the Aquatic Toxicity of Several Triazole Fungicides. Boros, B.-V., Roman, D.-L., & Isvoran, A. (2024). Evaluation of the Aquatic Toxicity of Several Triazole Fungicides. Metabolites, 14(4), 197. https://doi.org/10.3390/metabo14040197
- Chronic oral exposure to field-realistic pesticide combinations via pollen and nectar: effects on feeding and thermal performance in a solitary bee. Azpiazu, C., Bosch, J., Viñuela, E. et al. Chronic oral exposure to field-realistic pesticide combinations via pollen and nectar: effects on feeding and thermal performance in a solitary bee. Sci Rep 9, 13770 (2019). https://doi.org/10.1038/s41598-019-50255-4
- Occurrence of Current-Use Pesticides in Paired Indoor Dust, Drinking Water, and Urine Samples from the United States: Risk Prioritization and Health Implications. Xie, Y., Li, J., Salamova, A., & Zheng, G. (2025). Occurrence of Current-Use Pesticides in Paired Indoor Dust, Drinking Water, and Urine Samples from the United States: Risk Prioritization and Health Implications. Environmental science & technology, 59(25), 12507–12519. https://doi.org/10.1021/acs.est.5c00961
- Pesticides in the atmosphere and seawater in a transect study from the Western Pacific to the Southern Ocean: The importance of continental discharges and air-seawater exchange. Zhang, X., Zhang, X., Zhang, Z. F., Yang, P. F., Li, Y. F., Cai, M., & Kallenborn, R. (2022). Pesticides in the atmosphere and seawater in a transect study from the Western Pacific to the Southern Ocean: The importance of continental discharges and air-seawater exchange. Water research, 217, 118439. https://doi.org/10.1016/j.watres.2022.118439

Gateway Health and Environmental Effects Citations

1. European Commission. Endocrine Disruptors: Study on Gathering Information on 435 Substances with Insufficient Data. Final Report. EU DG Environment: B4-3040/2001/325850/MAR/C2. BKH Consulting Engineers: M0355037. November 2002. http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh_report.pdf#page=76.

2. California Environmental Protection Agency. Proposition 65: Chemicals Known to the State to Cause Cancer or Reproductive Toxicity. Office of Environmental Health Hazard Assessment. February 25, 2022.https://oehha.ca.gov/media/downloads/proposition-65//p65chemicalslistsinglelisttable2021p.pdf

3. Mineau, P., A. Baril, B.T. Collins , J. Duffe, G. Joerman, R. Luttik. 2001. Reference values for comparing the acute toxicity of pesticides to birds. Reviews of Environmental Contamination and Toxicology 170:13-74. http://web.archive.org/web/20081006213641/http://www.abcbirds.org/abcprograms/policy/pesticides/aims/aims/toxicitytable.cfm

4. Pesticide Action Network Pesticide Database. http://www.pesticideinfo.org/Search_Chemicals.jsp.

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