Chemical Factsheet

Spiroxamine

General Information

- Product Names:
  Prosper (Bayer)
- Chemical Class: Fungicide
- Beyond Pesticides rating: Toxic

Health and Environmental Effects

See citations at end of document.

- Cancer: Not documented
- Endocrine Disruption: Not documented
- Reproductive Effects: Yes (**1**)
- Neurotoxicity: Not documented
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Yes (**1**)
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (**1**)
- Toxic to Fish/Aquatic Organisms: Yes (**1**)
- Toxic to Bees: Yes (**1**)

Additional Information

- Regulatory Status:
  - EPA Registration Eligibility Decision signed (Jan/2004)
- Supporting information:
  - PAN Pesticides Database: Spiroxamine (Pesticide Action Network)
- Studies [compiled from the Pesticide-Induced Diseases Database]
  - Flooding as a Vector for the Transport of Pesticides from Streams to Riparian Plants. Fiolka, F. et al. (2024) Flooding as a Vector for the Transport of Pesticides from Streams to Riparian Plants, American Chemical Society ES&T Water. Available at: https://pubs.acs.org/doi/abs/10.1021/acsestwater.4c00571.
  - Current-use pesticides in vegetation, topsoil and water reveal contaminated landscapes of the Upper Rhine Valley, Germany. Mauser, K.M., Wolfram, J., Spaak, J.W. et al. Current-use pesticides in vegetation, topsoil and water reveal contaminated landscapes of the Upper Rhine Valley, Germany. Commun Earth Environ 6, 166 (2025). https://doi.org/10.1038/s43247-025-02118-2
  - Assessing pesticide residue occurrence and risks in the environment across Europe and Argentina. Alaoui, A., Christ, F., Abrantes, N., Silva, V., González, N., Gai, L., Harkes, P., Navarro, I., Torre, A., Martínez, M. Á., Norgaard, T., Vested, A., Schlünssen, V., Aparicio, V. C., Campos, I., Pasković, I., Pasković, M. P., Glavan, M., Ritsema, C., & Geissen, V. (2024). Assessing pesticide residue occurrence and risks in the environment across Europe and

Argentina. Environmental pollution (Barking, Essex : 1987), 363(Pt 1), 125056. https://doi.org/10.1016/j.envpol.2024.125056
- 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
- Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air. Mayer, L., Degrendele, C., Šenk, P., Kohoutek, J., Přibylová, P., Kukučka, P., Melymuk, L., Durand, A., Ravier, S., Alastuey, A., Baker, A. R., Baltensperger, U., Baumann-Stanzer, K., Biermann, T., Bohlin-Nizzetto, P., Ceburnis, D., Conil, S., Couret, C., Degórska, A., Diapouli, E., … Lammel, G. (2024). Widespread Pesticide Distribution in the European Atmosphere Questions their Degradability in Air. Environmental science & technology, 58(7), 3342–3352. Advance online publication. https://doi.org/10.1021/acs.est.3c08488
- The effect of the Falcon 460 EC fungicide on soil microbial communities, enzyme activities and plant growth. Baćmaga, M., Wyszkowska, J. & Kucharski, J. The effect of the Falcon 460 EC fungicide on soil microbial communities, enzyme activities and plant growth. Ecotoxicology 25, 1575–1587 (2016). https://doi.org/10.1007/s10646-016-1713-z
- Flood-borne pesticides are transferred from riparian soil via plants to phytophagous aphids. Fiolka, F., Fuchs, T., Roodt, A. P., Manfrin, A., & Schulz, R. (2025). Flood-borne pesticides are transferred from riparian soil via plants to phytophagous aphids. Chemosphere, 377, 144355. https://doi.org/10.1016/j.chemosphere.2025.144355
- Flood Frequency and Duration Drive the Aquatic-Terrestrial Pesticide Transfer to Riparian Root-Zone Soil: A Mesocosm Study. Fiolka, F. et al. (2026) Flood Frequency and Duration Drive the Aquatic-Terrestrial Pesticide Transfer to Riparian Root-Zone Soil: A Mesocosm Study, Archives of Environmental Contamination and Toxicology. Available at: https://link.springer.com/article/10.1007/s00244-026-01190-9.

Gateway Health and Environmental Effects Citations

1. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDS (iREDs) and RED Factsheets. https://archive.epa.gov/pesticides/reregistration/web/html/status.html.

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