

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., Kallehaug 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., Příbylová, 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., Wyszowska, 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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