

Chemical Factsheet

Fluxapyroxad

General Information

- Product Names:
 - Mibelya Fungicide** (BASF Corporation)
 - Xzemplar Fungicide** (BASF Corporation)
 - Sercadis® Xemium® Brand Fungicide** (BASF Corporation)
 - Xemium 2.72 Fungicide St** (BASF Corporation)
 - Xemium 2.78 Fungicide St** (BASF Corporation)
 - Imbrex Xemium Brand Fungicide** (BASF Corporation)
 - Revylok Fungicide** (BASF Corporation)
 - Xemium® Fungicide Technical** (BASF Corporation)
- Chemical Class: Carboxamide fungicide
- Uses: Used to control a wide range of fungal diseases (e.g., rusts, leaf spots, powdery mildew, *Botrytis*) in cereals, fruits, vegetables, and oilseeds.
- Alternatives: [Organic Agriculture](#)
- 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: Yes (2)
- 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 (1)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
 - EPA Federal Register - [Fluxapyroxad; Pesticide Tolerances](#)
 - [EPA Pesticide Fact Sheet](#) (2012)
- Supporting information:
 - [PubChem Hazardous Substances Database](#) (National Library of Medicine)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Fluxapyroxad induced toxicity of earthworms: Insights from multi-level experiments and molecular simulation studies](#). Zhang, Lanlan et al. "Fluxapyroxad induced toxicity of earthworms: Insights from multi-level experiments and molecular simulation studies."

Journal of hazardous materials vol. 480 (2024): 135911.

doi:10.1016/j.jhazmat.2024.135911

- [Toxic effects and potential mechanisms of Fluxapyroxad to zebrafish \(Danio rerio\) embryos](#). Lin, Hai et al. "Toxic effects and potential mechanisms of Fluxapyroxad to zebrafish (Danio rerio) embryos." The Science of the total environment vol. 769 (2021): 144519. doi:10.1016/j.scitotenv.2020.144519
- [Toxicity of the insecticide sulfoxaflor alone and in combination with the fungicide fluxapyroxad in three bee species](#). Azpiazu, C., Bosch, J., Bortolotti, L. et al. Toxicity of the insecticide sulfoxaflor alone and in combination with the fungicide fluxapyroxad in three bee species. Sci Rep 11, 6821 (2021). <https://doi.org/10.1038/s41598-021-86036-1>
- [Honey bee hives as biomonitors of pesticide environmental pollution. The INSIGNIA-EU monitoring action](#). Fernández-Alba, A. et al. (2025) Honey bee hives as biomonitors of pesticide environmental pollution. The INSIGNIA-EU monitoring action, Science of The Total Environment. Available at: <https://www.sciencedirect.com/science/article/pii/S0048969725019254>.
- [Insights into the chronic toxicity and mechanisms of fluorine-containing pesticides on earthworms](#). Shan, D. et al. (2025) Insights into the chronic toxicity and mechanisms of fluorine-containing pesticides on earthworms, Environmental Toxicology and Pharmacology. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S1382668925001863>.

Gateway Health and Environmental Effects Citations

1. National Library of Medicine. PubChem Hazardous Substances Database. [PubChem \(nih.gov\)](#)
2. 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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