

Chemical Factsheet

Synthetic Pyrethroids

(General Chemical Class)

General Information

- Fact Sheet: [Synthetic Pyrethroids Factsheet \(updated\).pdf](#)
- Product Names:
 - [Allethrin](#)
 - [Bifenthrin](#)
 - [Cypermethrin](#)
 - Flumethrin
 - [Permethrin](#)
 - [Resmethrin](#)
 - Sumithrin (d-phenothrin)
 - Tau-fluvalinate
 - [Tetramethrin](#)
- Chemical Class: Synthetic Pyrethroids
- Uses: Insecticide
- Alternatives: [Least-Toxic Insecticide](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Probable (1, 2, 3, 4)
- Endocrine Disruption: Possible (1)
- Reproductive Effects: Probable (5)
- Neurotoxicity: Yes (6, 5)
- Kidney/Liver Damage: Yes (6, 5)
- Sensitizer/ Irritant: Yes (6)
- Birth/Developmental: Yes (5)
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Possible (7)
- Toxic to Fish/Aquatic Organisms: Yes (6)
- Toxic to Bees: Yes (6)

Additional Information

- Regulatory Status:
 - [EPA's Pyrethrins and Pyrethroids Reregistration and Labeling](#) (1/2023)
 - [EPA's Pyrethroids and Pyrethrins Ecological Risk Mitigation Proposal for 23 Chemicals Final](#) (11/2019)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Acute Illnesses Associated With Pesticide Exposure at Schools](#), Alarcon, W. et. al.

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Gateway Health and Environmental Effects Citations

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Factsheet generated on May 24, 2026