

Chemical Factsheet

Clothianidin

General Information

- Product Names:
 - Aloft** (Arysta) formulated with Bifenthrin
 - Arena** (Valent)
 - Darlex** (Valent)
 - Poncho** (Bayer)
 - Prosper** (Bayer) formulated with Penflufen
 - Sepresto** (Bayer) formulated with imidacloprid
 - Three-way** (Bayer) formulated with Metalaxyl and ipconazole
 - Titan** (Bayer) formulated with Thiram, Carboxin and Metalaxyl
- Chemical Class: Nitroguanidine (subgroup of nicotinoids) insecticide
- Uses: Agriculture
- 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: Not documented
- Neurotoxicity: Yes (1)
- Kidney/Liver Damage: Not documented
- Sensitizer/ Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Not documented
- Toxic to Birds: Yes (2)
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Yes (1)

Residential Uses as Found in the ManageSafe™ Database

- [Ants](#)
- [Chinch Bugs](#)
- [Cockroaches](#)
- [Grubs](#)
- [Clover](#)
- [Fire Ants](#)

Additional Information

- Regulatory Status:

- [Beyond Pesticides' Neonicotinoid Comments \(October 2024\)](#)
- [Clothianidin Registration Review](#)
- [EPA Actions on Pollinators](#)
- [Beyond Pesticides' Non-Pollinator Neonicotinoid Assessment comments \(4/2018\)](#)
- [Beyond Pesticides' EPA registration review bee risk assessment comments \(7/2017\)](#)
- [Clothianidin EPA Petition and Response \(2012\)](#)
- [EPA Factsheet \(2013\)](#)
- Supporting information:
 - [Daily News Blog](#)
 - [Pesticides and Pollinators: Chemicals Implicated in Colony](#)
 - [EFSA risk assessments of three neonicotinoids – clothianidin, imidacloprid and thiamethoxam](#)
 - EU Commission: [Neonicotinoids](#)
 - [EFSA consultation for thiamethoxam \(2016\)](#)
 - [Poisoned Waterways \(Beyond Pesticides, 2017\)](#)
 - [Net Loss—Economic Efficacy And Costs Of Neonicotinoid Insecticides Used As Seed Coatings: Updates From The United States And Europe \(Center for Food Safety, 2016\)](#)
 - [Heavy Costs: Weighing the Value of Neonicotinoid Insecticides in Agriculture \(Center for Food Safety, 2014\)](#)
 - The Xerces Society - [Neonicotinoids and Bees](#)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
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 - [Effects of neonicotinoid pesticide exposure on human health: a systematic review.](#) Cimino AM, Boyles AL, Thayer KA, Perry MJ. 2017. *Environ Health Perspect.* 125:155–162
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Gateway Health and Environmental Effects Citations

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