

Chemical Factsheet

Thiamethoxam

General Information

- Product Names:
 - Actara** (Syngenta)
 - Platinum** (Syngenta)
 - Meridian** (Syngenta)
 - Flagship** (Syngenta)
 - Helix Insecticide with Fungicides** (Syngenta) formulated with Fludioxonil, Metalaxyl-M, and Difenoconazole
 - Centric** (Syngenta)
 - Optigard** (Syngenta)
 - Endigo** (Syngenta) formulated with lambda-Cyhalothrin
 - Durivo** (Syngenta) formulated with Chlorantraniliprole
 - Avicta Duo** (Syngenta) formulated with Abamectin
 - Derby** (Syngenta) formulated with lambda-Cyhalothrin
 - Solvigo** (Syngenta) formulated with Abamectin
 - Agita** (Novartis Animal Health) formulated with cis-9-Tricosene
- Chemical Class: Neonictinoid
- Uses: Corn, bean, coffee, stone fruit, cucurbits, cotton, and turf
- 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 (1)
- Sensitizer/Irritant: Not documented
- Birth/Developmental: Not documented
- Detected in Groundwater: Not documented
- Potential Leacher: Yes (2)
- Toxic to Birds: Not documented
- Toxic to Fish/Aquatic Organisms: Not documented
- Toxic to Bees: Yes (3)

Residential Uses as Found in the ManageSafe™ Database

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

- [Bed Bugs](#)

Additional Information

- Regulatory Status:
 - [Beyond Pesticides' Neonicotinoid Comments \(October 2024\)](#)
 - [Beyond Pesticides' comments on Preliminary Neonicotinoid Assessments](#) (04/2018)
 - [Beyond Pesticides' comments on Preliminary Bee Risk Assessment](#) (7/2017)
 - [Thiamethoxam Registration Review](#)
 - [EPA Actions on Pollinators](#)
 - [Benefits of Neonicotinoid Seed Treatments to Soybean Production](#) (EPA, 2014)
- Supporting information:
 - [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](#)
 - [PAN Pesticides Database: Thiamethoxam](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [A common neonicotinoid pesticide, thiamethoxam, impairs honey bee flight ability.](#) Tosi, S, Burgio, G & Nieh, J.C. 2017. Scientific Reports volume 7, Article number: 1201
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Gateway Health and Environmental Effects Citations

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