

Chemical Factsheet

Bifenthrin

General Information

- Fact Sheet: [Synthetic Pyrethroids.pdf](#)
- Product Names:
 - Dexol Lawn Insecticide** (Value Gardens Supply)
 - Bifen Nursery Insecticide Granules** (Value Gardens Supply)
 - Bifen XTS** (Control Solutions, Inc.)
 - Menace** (Nufarm)
 - Ortho Home Defense Indoor/Outdoor Insect Killer** (The Scotts Co)
 - Rosepride Rose & Flower Insect Killer** (The Scotts Co.)
 - Ortho Fire Ant Killer** (The Scotts Co)
 - Ortho Home Defense Max Wasp & Hornet Killer** (The Scotts Co)
 - Ortho Bug B Gon** (The Scotts Co)
 - Talstar** (FMC Corp)
 - Capture** (FMC Corp)
 - Biflex** (FMC Corp)
 - Double Threat Insecticide** (FMC Corp)
 - Hero Insecticide** (FMC Corp)
 - Triple Crown** (FMC Corp)
 - Brigadier Insecticide** (FMC Corp)
 - Allectus** (Bayer)
 - Whitmire Total release Insecticide** (BASF)
 - Turf Builder with Fire Ant-X** (The Scotts Co)
 - Southernmax** (The Scotts Co)
 - Scotts Turf Fertilizer with Ortho Max Pro** (The Scotts Co)
 - Southern Preen Plus** (Lebanon Seaboard Corp)
 - MGK** (McLaughlin Gormley King Co)
 - Tundra** (Winfield Solutions)
 - Sergeants Bifenthrin Shampoo for Dogs** (Sergeant's Pet Care Products)
 - Discipline** (AMVAC Chemical Corp)
 - Wisdom** (AMVAC Chemical Corp)
 - SmartChoice** (AMVAC Chemical Corp)
 - Empower Granular Insecticide** (Helena Chemical Corp)
 - Pro-Mate Bifenthrin plus Fertilizer** (Helena Chemical Corp)
 - The Andersons Fertilizer Bait Granules** (The Andersons Lawn Fertilizer Division)
 - Chemsico Fire Ant Killer** (Chemsico)
 - Crosscheck Insecticide** (Lesco Inc)
 - Sniper** (Loveland Products Inc)
 - Bisect** (Loveland Products Inc)
 - Swagger** (Loveland Products Inc)
 - Turf Pride Fertilizer** (Howard Fertilizer & Chemical Co)
 - CRC Fire Ant Killer Granules** (CRC Industries Inc)
 - Fanfare** (Makhteshim Agan)
 - Mana** (Makhteshim Agan)

Aloft (Arysta LifeScience)
Up-Star (United Phosphorus Inc)
Firebird Pro (United Phosphorus Inc)
Maxxthor (Ensystem II)
Wet & Forget Bug Killer (Wet & Forget USA Ltd)
Reclaim (Inova Chemicals)
Kylix Lawn Care (Syntelus)

- Chemical Class: Pyrethroid insecticide
- Uses: Agricultural and nonagricultural and residential sites including corn, cotton, soybeans, fruit, vegetables, herbs, nuts, ornamentals, Christmas trees, conifers, golf courses, lawns, rights of ways, wood treatment, food handling sites.
- Alternatives: [Organic agriculture](#), [Organic Christmas trees](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Residential Uses as Found in the ManageSafe™ Database

- [Bagworms](#)
- [Carpenter Bees](#)
- [Tree-boring Caterpillars](#)
- [Termites](#)
- [Ants](#)
- [Bed Bugs](#)
- [Chiggers](#)
- [Chinch Bugs](#)
- [Fleas](#)
- [Grubs](#)
- [Gypsy Moths](#)
- [Hemlock Woolly Adelgid](#)
- [Carpenter Ants](#)
- [Carpet Beetle](#)
- [Centipedes](#)
- [Spiders](#)
- [Ticks](#)
- [Wasps and Yellowjackets](#)
- [Clover](#)

- [Thrips](#)
- [Fire Ants](#)

Additional Information

- Regulatory Status:
 - [EPA Regulatory Documents](#)
 - [Beyond Pesticides' Comments December 2024](#)
- Supporting information:
 - [Daily News Blog entries](#) (Beyond Pesticides)
 - [Asthma, Children and Pesticides](#) (Beyond Pesticides)
 - [Exttoxnet Bifenthrin Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database: Bifenthrin](#) (Pesticide Action Network)
 - [Bifenthrin General Factsheet](#) (NPIC)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Temporal and spatial trends in sediment contaminants associated with toxicity in California watersheds.](#) (Siegler K, Phillips BM, et al. 2015. Environ Pollut 206:1-6.)
 - [Predicted transport of pyrethroid insecticides from an urban landscape to surface water.](#) (Jorgenson B, Fleishman E, et al.2013. Environ Toxicol Chem. 32(11):2469-77.)
 - [Early Life Exposure to Environmentally Relevant Levels of Endocrine Disruptors Drive Multigenerational and Transgenerational Epigenetic Changes in a Fish Model.](#) Major, K.M., DeCourten, B.M., Li, J., Britton, M., Settles, M.L., Mehinto, A.C., Connon, R.E. and Brander, S.M., 2020. Frontiers in Marine Science, 7, p.471.
 - [Bifenthrin-induced neurotoxicity in rats: involvement of oxidative stress.](#) Syed F, Awasthi KK, Chandravanshi LP, et al 2017. Toxicol Res (Camb). 7(1):48-58.
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 - [Assessing the Presence of Current-Use Pesticides in Mid-Elevation Sierra Nevada Streams](#)

- [Using Passive Samplers, California, 2018–19](#). De Parsia, M.D., Orlando, J.L., and Hladik, M.L., 2023, Assessing the presence of current-use pesticides in mid-elevation Sierra Nevada streams using passive samplers, California, 2018–19: U.S. Geological Survey Scientific Investigations Report 2022–5129, 31 p., <https://doi.org/10.3133/sir20225129>.
- [Lethal and sublethal effects of seven insecticides on three beneficial insects in laboratory assays and field trials](#). Fernandes, M. et al. (2016) Lethal and sublethal effects of seven insecticides on three beneficial insects in laboratory assays and field trials, *Chemosphere*. Available at: <https://www.sciencedirect.com/science/article/abs/pii/S0045653516306051>.
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Gateway Health and Environmental Effects Citations

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3. European Commission. Endocrine Disruptors: Study on Gathering Information on 435 Substances with Insufficient Data. Final Report. EU DG Environment: B4-3040/2001/325850/MAR/C2. BKH Consulting Engineers: M0355037. November 2002. http://ec.europa.eu/environment/chemicals/endocrine/pdf/bkh_report.pdf#page=76.
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Factsheet generated on April 18, 2026