

Chemical Factsheet

Endosulfan

General Information

- Fact Sheet: [endosulfan_final.pdf](#)
- Product Names:
 - Drexel endosulfan** (Drexel Chemical Co.)
 - Endafly insecticide cattle ear tag** (Kmg-bernuth Inc)
 - Phaser** (Bayer Cropsciences)
 - Thionex technical insecticide** (Makhteshim-agan)
 - Thiodan** (Makhteshim-agan)
- Chemical Class: Organochlorine
- Uses: Contact insecticide in vegetables, fruits, cereal grains, and cotton, as well as ornamental shrubs, trees, vines, and ornamentals for use in commercial agricultural settings.
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Residential Uses as Found in the ManageSafe™ Database

- [Tree-boring Caterpillars](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\) signed](#) (11/2002)
 - [Lawsuit](#) filed by Pesticide Action Network, Beyond Pesticides, NRDC, UFW et. al (7/2008)
 - Scientists' [call to ban endosulfan](#) (5/2008)
 - [EPA Announces Move to Terminate Use of Endosulfan](#) (6/2010)
- Supporting information:
 - [Daily News Blog entries](#) (Beyond Pesticides)

- [Extoxnet Endosulfan Factsheet](#) (Extension Toxicology Network)
- [PAN Pesticides Database:Endosulfan](#) (Pesticide Action Network)
- [PAN Endosulfan Program Page](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Developmental exposure to pesticides zineb and/or endosulfan renders the nigrostriatal dopamine system more susceptible to these environmental chemicals later in life.](#) Jia, Z., et al. 2007. *Neurotoxicology* 28(4):727-735
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 - [Influence of Pesticides Contamination on Microbial Population of Selected Farmlands.](#) Uneze, D.P., Kugbenu, G.J. and Obire, O. (2024) *Influence of pesticides contamination on microbial population of selected farmlands*, *British Journal of Environmental Sciences*. Available at: <https://eajournals.org/bjes/vol12-issue-5-2024/influence-of-pesticides-contamination-on-microbial-population-of-selected-farmlands/>.
 - [Thyroid under Attack: The Adverse Impact of Plasticizers, Pesticides, and PFASs on Thyroid Function.](#) Rodrigues, V.G. et al. (2024) *Thyroid under Attack: The Adverse Impact of Plasticizers, Pesticides, and PFASs on Thyroid Function*, *Endocrines*. Available at: <https://www.mdpi.com/2673-396X/5/3/32>.
 - [Perinatal exposure to pesticides alters synaptic plasticity signaling and induces behavioral deficits associated with neurodevelopmental disorders.](#) López-Merino, E., Cuartero, M.I., Esteban, J.A. et al. *Perinatal exposure to pesticides alters synaptic plasticity signaling and induces behavioral deficits associated with neurodevelopmental disorders*. *Cell Biol Toxicol* 39, 2089–2111 (2023). <https://doi.org/10.1007/s10565-022-09697-2>

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Gateway Health and Environmental Effects Citations

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