

Chemical Factsheet

Linuron

General Information

- Product Names:
 - Layby** (Tessenderlo Kerley) formulated with [Diuron](#)
 - Linex** (Terssenderlo Kerley)
- Chemical Class: Substituted urea herbicide
- Uses: Restricted Use Pesticide used to control germinating and newly emerging grasses and broad-leafed weeds on agricultural crops, ornamental bulbs and poplar trees.
- Alternatives: [Organic agriculture](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

- Cancer: Possible (1)
- Endocrine Disruption: Yes (2)
- Reproductive Effects: Yes (1)
- Neurotoxicity: Not documented
- 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: Not documented
- Toxic to Fish/Aquatic Organisms: Yes (1)
- Toxic to Bees: Not documented

Additional Information

- Regulatory Status:
 - [EPA Tolerance Reassessment Eligibility Decision](#) (TRED) Signed (5/2002)
 - [EPA Reregistration Eligibility Decision](#) (RED) (3/1995)
- Supporting information:
 - [Exttoxnet Linuron Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticide Database - Linuron](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Environmental Control of Astrocyte Pathogenic Activities in CNS Inflammation](#). Wheeler, M.A., Jaronen, M., Covacu, R., Zandee, S.E., Scalisi, G., Rothhammer, V., Tjon, E.C., Chao, C.C., Kenison, J.E., Blain, M. and Rao, V.T., 2019. Cell, 176(3), pp.581-596.
 - [Exploring associations between residential exposure to pesticides and birth outcomes using the Dutch birth registry](#). Simões, M., Vermeulen, R., Portengen, L., Janssen, N. and Huss, A., 2023. Environment International, p.108085.
 - [Pesticides and prostate cancer incidence and mortality: An environment-wide association study](#). Soerensen, S. et al. (2024) Pesticides and prostate cancer incidence and mortality:

An environment-wide association study, Cancer. Available at:
<https://acsjournals.onlinelibrary.wiley.com/doi/10.1002/cncr.35572>.

- [Immune response of Brazilian farmers exposed to multiple pesticides](#). Jacobsen-Pereira, C.H. et al. (2020) 'Immune response of Brazilian farmers exposed to multiple pesticides', *Ecotoxicology and Environmental Safety*, 202, p. 110912. doi:10.1016/j.ecoenv.2020.110912.
- [Wastewater surveillance for assessing human exposure to pesticides: Investigating populations living near flower bulb fields](#). Bijlsma, L. et al. (2025) Wastewater surveillance for assessing human exposure to pesticides: Investigating populations living near flower bulb fields, *Journal of Environmental Chemical Engineering*. Available at: <https://www.sciencedirect.com/science/article/pii/S2213343725017865>.

Gateway Health and Environmental Effects Citations

1. US EPA, Office of Prevention, Pesticides and Toxic Substances, Reregistration Eligibility Decisions (REDs), Interim REDs (iREDs) and RED Factsheets.

<https://archive.epa.gov/pesticides/reregistration/web/html/status.html>.

2. Colborn, T., D. Dumanoski, and J.P. Myers. 1996. *Our Stolen Future: Are We Threatening Our Fertility, Intelligence, and Survival?* New York: Dutton. <http://ourstolenfuture.org/Basics/chemlist.htm>

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