

Chemical Factsheet

Oryzalin

General Information

- Fact Sheet: [Oryzalin.pdf](#)
- Product Names:
 - Lilly/Miller Weed & Grass Preventer** (Central Garden & Pet)
 - Ferti-Lome Weed and Feed Special** (Voluntary Purchasing Group), formulated with [Benefin](#)
 - Vertagreen Pre-Emergence Weed & Feed** (United Industries), formulated with [Benefin](#)
 - Pro-Teck** (Howard Johnson's Enterprises)
 - XL2G** (Setre Chemical), formulated with [Benefin](#)
- Chemical Class: Dinitroaniline sulfonamide herbicide
- Uses: Control of annual grasses, broadleaf weeds, woody shrubs and vines in grapes, berries and orchard crops, fruits nuts; residential and commercial/industrial lawns and turf, golf course turf, ornamentals and shade trees, Christmas tree plantations, fencerows/hedgerows, nonagricultural rights-of-way, and uncultivated areas including patios, paths, paved areas and power stations.
- Alternatives: [Organic agriculture](#), [Organic lawn care](#), [Organic christmas trees](#), [Least-toxic rights-of-way managment](#)
- Beyond Pesticides rating: [Toxic](#)

Health and Environmental Effects

See citations at end of document.

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

Residential Uses as Found in the ManageSafe™ Database

- [Crabgrass](#)
- [Knotweed](#)
- [Chickweed](#)

Additional Information

- Regulatory Status:
 - [EPA Reregistration Eligibility Decision \(RED\)](#) signed (9/1994)
- Supporting information:
 - [NCAP Oryzalin Factsheet](#) (Northwest Coalition for Alternatives to Pesticides)
 - [Extoxnet Oryzalin Factsheet](#) (Extension Toxicology Network)
 - [PAN Pesticides Database:Oryzalin](#) (Pesticide Action Network)
- Studies [compiled from the [Pesticide-Induced Diseases Database](#)]
 - [Oryzalin impairs maternal-fetal interaction during early pregnancy via ROS-mediated P38 MAPK/AKT and OXPHOS downregulation](#). Jiyeon Ham, Jisoo Song, Gwonhwa Song, Whasun Lim, Oryzalin impairs maternal-fetal interaction during early pregnancy via ROS-mediated P38 MAPK/AKT and OXPHOS downregulation, *Food and Chemical Toxicology*, Volume 174, 2023, 113665, ISSN 0278-6915, <https://doi.org/10.1016/j.fct.2023.113665>.
 - [Mechanisms of female reproductive toxicity in pigs induced by exposure to environmental pollutants](#). Junho Park, Hojun Lee, Junhun Kweon, Sunwoo Park, Jiyeon Ham, Fuller W. Bazer, Gwonhwa Song, Mechanisms of female reproductive toxicity in pigs induced by exposure to environmental pollutants, *Molecules and Cells*, Volume 47, Issue 5, 2024, 100065, ISSN 1016-8478, <https://doi.org/10.1016/j.mocell.2024.100065>.

Gateway Health and Environmental Effects Citations

1. US EPA, 2000. Table 1: Toxicity Data by Category for Chemicals Listed under EPCRA Section 313. Toxic Release Inventory (TRI) Program.
https://www.epa.gov/sites/production/files/documents/hazard_categories.pdf
2. 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>.
3. Beyond Pesticides ChemWatch Factsheets. (Cited under factsheets on [Beyond Pesticides Gateway](#); see top of individual chemical page)
4. Extension Toxicology Network (EXTOXNET) Pesticide Information Profiles.
<http://extoxnet.orst.edu/pips/ghindex.html>

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